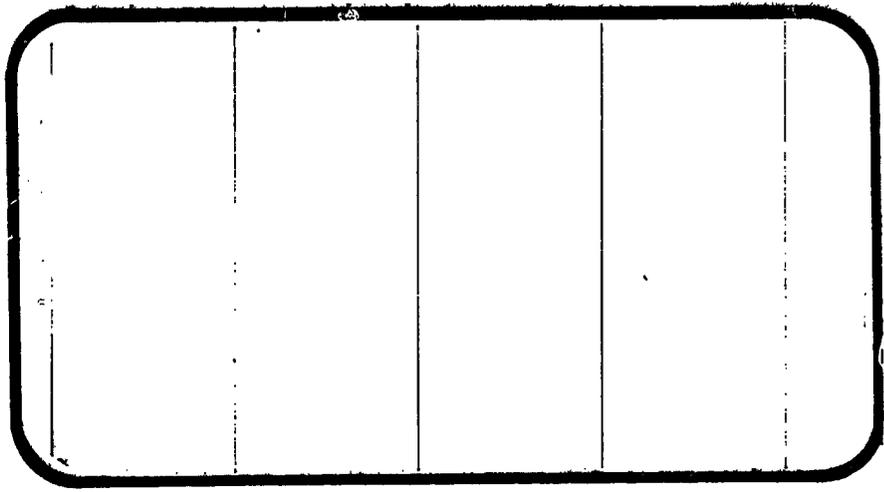




NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



NASA-CR-128794-Vol-11) RESULTS OF TESTS
OA12 AND IA9 IN THE AMES RESEARCH CENTER
UNITARY PLAN WIND TUNNELS ON AN
0.030-SCALE MODEL OF THE SPACE (Chrysler
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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

**JOHNSON SPACE CENTER
HOUSTON, TEXAS**

DATA Management services



October, 1973

DMS-DR-2032
NASA CR-128,794

VOLUME 11 OF 18

RESULTS OF TESTS OAL2 AND IA9 IN THE
AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS
ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE
VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS

By

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Rockwell International

Prepared under NASA Contract Number NAS9-13247

By

Data Management Services
Chrysler Corporation Space Division
New Orleans, Louisiana 70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WING TUNNEL TEST SPECIFICS:

Test Numbers: ARC 11-707 (A)
 ARC 97-707 (B)
 ARC 87-707 (C)
NASA Series Numbers: IA9A, B, C and
 OAL2A, C
Test Date: 2 April - 17 May, 1973

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RESULTS OF TESTS OAL2 AND IA9 IN THE
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ABSTRACT

Tests were conducted in the NASA/ARC Unitary Plan Wind Tunnels during April and May 1973, on an 0.030-scale replica of the Space Shuttle Vehicle Configuration 2A. Aerodynamic loads data were obtained at Mach numbers from 0.6 to 3.5.

The investigation included Tests IA9A, B and C on the integrated (launch) configuration and Tests OAL2A and C on the isolated orbit. (entry configuration). The integrated vehicle was tested at angles of attack and sideslip from -8 degrees to +8 degrees. The isolated orbiter was tested at angles of attack from -15 degrees to +40 degrees and angles of sideslip from -10 degrees to +10 degrees as dictated by trajectory considerations. The effects of orbiter/external tank incidence angle and deflected control surfaces on aerodynamic loads were also investigated.

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INTRODUCTION

The 0.030-scale Aero Loads Space Shuttle model was tested in the Unitary Plan Wind Tunnels at ARC starting April 2, and continuing through May 17, 1973 as follows:

IA9A	11-foot Transonic	April 2 to April 14, 1973
OA12A	11-foot Transonic	April 16 to April 29, 1973
IA9C	8x7-foot Supersonic	April 23 to May 1, 1973
OA12C	8x7-foot Supersonic	May 2 to May 8, 1973
IA9B	9x7-foot Supersonic	May 9 to May 17, 1973

The testing was conducted in all three legs of the Unitary Plan Wind Tunnels to obtain a Mach number range from 0.6 to 3.5. Aerodynamic loads data were obtained for the ascent and entry configurations. The effects of control surface deflections were also investigated.

This report consists of 3 volumes of force data and 15 volumes of pressure data for a total of 18 volumes arranged in the following manner:

<u>VOLUME NO.</u>	<u>CONTENTS</u>
1	IA9A force data
2	IA9B and IA9C force data
3	OA12A and OA12C force data
4	IA9A plotted pressure data
5	IA9B and IA9C plotted pressure data
6	OA12A and OA12C plotted pressure data
7	IA9A tabulated pressure data (a) orbiter fuselage (b) orbiter base (c) upper MPS nozzle
8	IA9A tabulated pressure data (a) OMS nozzle (b) body flap (c) OMS pod outside (d) lower wing surface
9	IA9A tabulated pressure data (a) upper wing surface (b) left vertical tail surface (c) right vertical tail surface (d) APU inlet (e) SRM booster base
10	IA9A tabulated pressure data (a) SRM booster (b) external tank (c) external tank base

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(a) orbiter fuselage
(b) orbiter base
(c) upper MPS nozzle
(d) OMS nozzle
(e) body flap
(f) OMS pod outside
(g) lower wing surface
- 12 IA9B tabulated pressure data
(a) upper wing surface
(b) left vertical tail surface
(c) right vertical tail surface
(d) APU inlet
(e) SRM booster base
(f) SRM booster
(g) external tank
(h) external tank base
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(b) orbiter base
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(d) OMS nozzle
(e) body flap
(f) OMS pod outside
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(b) upper wing surface
(c) left vertical tail surface
(d) right vertical tail surface
(e) APU inlet
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All components

NOMENCLATURE
General

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C _p	CP	pressure coefficient; $(p_1 - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m^2 , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m^2 , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3 , slugs/ft ³

Reference & C.G. Definitions

A _b		base area; m ² , ft ²
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
$\frac{l}{c}$ _{REF}	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m ² , ft ²
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(P_b - P_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CYN	—yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D _f	L/DF	lift to forebody drag ratio; C_L/C_{D_f}

NOMENCLATURE (CONTINUED)

ADDITIONS TO STANDARD LIST

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
δ_R	RUDDER	rudder, surface deflection angle, positive deflection, trailing edge to the left; degrees.
δ_e	ELEVON	elevon, surface deflection angle, positive deflection, trailing edge down; degrees.
δ_{RF}	RUDFLR	rudder flare, split rudder deflection angle, left split rudder trailing edge left and right split rudder trailing edge right, $\delta_{RF} = (\delta_{RL} + \delta_{RR})/2$, positive deflection; degrees.
i_o	ORBINC	incidence angle between the orbiter and external tank, $i_o = \alpha_t - \alpha_b$; degrees.
β_T	BETAT	angle of sideslip of external tank.
α_T	ALPHAT	angle of attack of external tank.
l_B	LB	length of orbiter body; in.
l_T	LT	length of external tank; in.
l_s	LS	length of SRM booster; in.
l_{NM}	LNM	length of OMS nozzle, positive direction forward of exit plane; in.
l_{NP}	LNP	length of MPS nozzle, positive direction forward of exit plane; in.
$b/2$	BW	wing semi-span; in.
b_v	BV	vertical tail span; in.
x	X	distance from component nose; in.
y	Y	lateral distance from centerline; in.

NOMENCLATURE (CONCLUDED)

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
z	Z	vertical distance measured from W.L. 500 (vertical tail reference root chord); in.
c_w	CW	local wing chord; in.
c_v	CV	local vertical tail chord; in.
x/l_B	X/LB	longitudinal position/orbiter body length.
x/l_T	X/LT	longitudinal position/external tank length.
x/l_S	X/LS	longitudinal position/booster length.
x/l_{NM}	X/LNM	longitudinal position/OMS nozzle length.
x/l_{NP}	X/LNP	longitudinal position/MPS nozzle length.
x/c_w	X/CW	local chordwise position/local wing chord length.
x/c_v	X/CV	local chordwise position/local vertical tail chord length.
$y/b/2$	Y/BW	local spanwise position/wing semi-span.
z/b_v	Z/BV	local spanwise position/vertical tail span.

CONFIGURATIONS INVESTIGATED

The 0.030-scale aero loads model was a replica of the Space Shuttle Vehicle 2A. It consisted of four major components: the orbiter, the external oxygen and hydrogen tank (ET) and two solid rocket boosters (SRB).

On the ascent configuration, the orbiter was strut mounted from the ET on a Task Corporation MK XVI 2.5-inch diameter internal balance. The left SRB was strut mounted from the ET on a Task Corporation MK XXII 1.5-inch diameter internal balance. No attempt was made to simulate actual inter-attachments. The ET was sting mounted to the tunnel model support system on a Task Corporation 4.0-inch diameter internal balance. The right SRB was strut mounted symmetrically to the left side, but did not contain a balance. The orbiter configuration, designated as O2A, consisted of B10C5D7W87V5R5M3F4.

The entry configuration consisted of the isolated orbiter, sting mounted to the tunnel model support system on a Task Corporation MK XXA 2.5-inch diameter internal balance. Midway through the OAL2C test, the MK XXA balance was damaged and was replaced by the MK XXB for the high angles of attack. The orbiter was provided with deflectable elevons by means of interchangeable brackets, deflectable rudder by means of a pin-indexed hinge, and interchangeable rudders to obtain different speed brake flare angles. The main propulsion system engines were removed during entry configuration testing to provide sting clearance. A cover plate was provided for the strut clearance hole.

The orbiter was instrumented with 374 pressure orifices on the left wing, left side of the fuselage, vertical tail, left OMS pod and engine, left and upper MPS engine and the base. The pressures were measured using eleven Scanivalve, Inc., S-type valve modules mounted internally (a five and a six gang unit). When tested in the entry configuration, the MPS pressures were not available for measurement.

The left side of the ET was instrumented with 136 pressure orifices. These pressures were measured by means of 7 Scanivalve, Inc., S-type valve modules configured as one unit of 6 modules and one single. These valves were mounted internally in the tank. The left SRB had one gang of six S-type modules to measure 102 pressures. The right SRB was not instrumented. The pressure transducers used in the valve modules were Statham PM 131 TC differential pressure transducers, with ranges of ± 10 psid, ± 12.5 psid and ± 15 psid. Reference and calibration pressures were measured by the ARC micro manometers.

Some modifications were made to the model at the test site prior to

CONFIGURATIONS INVESTIGATED (CONTINUED)

testing. These were as follows:

1. The forward tip of the ET containing the retro rocket package (Reference NR Drawing VL78-000018) was replaced with a flush 0.90 inch radius nose (Model scale). The new nose had five pressure taps; one in the nose and four more aft of the nose on the vertical and horizontal axis on a 0.315 inch radius.
2. The ET balance cavity was enlarged by one inch on the diameter (from 5 inches to 6 inches) to provide clearance for cable routing and eliminate balance interference.
3. The clearances around both the orbiter and the SRB struts were opened to approximately 1/8 inch to prevent interference.
4. An alternate rudder hinge pin was provided to give a rudder deflection of +15 degrees.

Before and during the tests various model discrepancies developed or were discovered. These were generally minor and had only a negligible, if any, effect on the data. Significant discrepancies are noted below:

1. Pressure orifices P171 and P173 on the OMS pod base were omitted.....
2. During the test certain pressure taps developed leaks or became plugged. Data from these taps are questionable and should be used with caution. Difficulties in checking may have resulted in erroneous indications of leakage. Repairs were made to correct leaking or plugged pressure instrumentation, whenever possible, as the test progressed. The following list gives those taps that were indicated as bad on the various leak and response checks:

ARC Facility	Run Nos.	Orifice numbers with questionable pressure data
11'	2-4	72, 163, 427
↓	5-118	31, 100, 123, 163, 201, 427
↓	119-160	16, 98, 101, 107, 333, 427
↓	161-170	16, 98, 101, 107, 333, 427 + 306, 307, 327, 328, 336, 337, 356, 357, 375

CONFIGURATIONS INVESTIGATED (CONCLUDED)

<u>ARC Facility.</u>	<u>Run Nos.</u>	<u>Orifice numbers with questionable pressure data</u>
11'	171-182	16, 47, 53, 75, 78, 98, 107, 201, 236, 237, 238, 307, 327, 365, 427
↓	183-189	Same as (171-182) + 7, 447, 525
↓	190-211	Same as (171-182)
8'x7'	220-234	20, 21, 24, 74, 326, 327, 336, 424, 427, 752, 868, 871
↓	235-285	74, 326, 327, 336, 424, 427, 752, 868, 871
↓	286-300	74, 107, 115, 124, 129, 138, 326, 327, 336, 427
↓	301-305	74, 326, 327, 336, 427
↓	306-333	74, 326, 327, 427
9'x7'	340-396	5, 325, 326, 327, 424, 427, 526, 752, 868, 871

TEST FACILITIES DESCRIPTION

Ames 11 x 11-Ft. Transonic

The Ames 11 x 11-Foot Transonic Wind Tunnel is a variable density, closed return, continuous flow type. This tunnel has an adjustable nozzle (two flexible walls) and a slotted test section to permit transonic testing over a Mach number range continuously variable from 0.4 to 1.4.

Ames 8 x 7-Ft. Supersonic

The Ames 8 x 7-Foot Supersonic Wind Tunnel is a closed-return, variable-density tunnel with a 8- by 7-foot rectangular test section. The nozzle has flexible side walls with fixed upper and lower surfaces. Mach number range is continuously variable from 2.45 to 3.5. Tunnel stagnation pressure can be varied from 0.3 to 2.0 atmospheres and Reynolds number per foot varies from 1.0×10^6 to 5.0×10^6 .

Ames 9 x 7-Ft. Supersonic

The Ames 9 x 7-Foot Supersonic Wind Tunnel is a variable density, continuous flow type with an adjustable nozzle to permit supersonic testing over a Mach number range continuously variable from 1.5 to 2.5. The nozzle is of the asymmetric, sliding-block type in which the variation of the test section Mach number is achieved by translating, in the streamwise direction, the fixed-contour block that forms the floor of the nozzle.

DATA REDUCTION

Standard procedures were utilized to reduce force and pressure data to coefficient form. The following dimensional constants were applied:

Reference Dimensions and Constants (Model Scale)

$$S_{\text{Ref.}} = 2.421 \text{ ft}^2$$

Orbiter reference area

$$Q_{\text{Ref.}} = 39.849 \text{ in.}$$

Orbiter reference length

Base Areas (Model Scale)

$$A_{\text{BOI}} = 0.1903 \text{ Ft}^2$$

Orbiter base area, integrated

$$A_{\text{BOA}} = 0.2362$$

Orbiter base area, sting mounted

$$A_{\text{EMPSU}} = 0.0417$$

Orbiter upper MPS base area

$$A_{\text{EMPSL}} = 0.0853$$

Orbiter lower MPS base area

$$A_{\text{BACPS}} = 0.0310$$

Orbiter ACPS base area on OMS pod

$$A_{\text{BOMS}} = 0.0231$$

Orbiter OMS nozzle base area

$$A_{\text{BPOD}} = 0.0257$$

Orbiter OMS pod base area

$$A_{\text{CO}} = 0.0611$$

Orbiter sting cavity base area

$$A_{\text{BNOZ}} = 0.0564$$

SRM nozzle base area

$$A_{\text{BSKIRT}} = 0.1729$$

SRM nozzle skirt base area

$$A_{\text{BETI}} = 0.3189$$

ET Base area

$$A_{\text{CET}} = 0.1964$$

ET Sting cavity base area

TEST : 0A12 / IAG TABLE I. DATE : May, 1973

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. foot)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.6	4.0 x 10 ⁶	540	120° NOM.
0.9	4.5	800	
1.1	4.0	800	
1.25	3.0	630	
1.4	3.0	650	
1.55	2.8	600	
2.0	2.3	490	
2.5	1.5	300	
3.0	2.0	350	Y
3.5	2.0	300	

FIVE (5) TASK CORPORATION BALANCES
BALANCE UTILIZED: WITH CAPACITIES AS FOLLOWS:

	ISOLATED ORBITER		INTEGRATED VEHICLE		
	MARK IIA	MARK IB	ORV MARK III	SRB MARK IV	ET MARK V
NF	3000	3000	2400	1250	4000
NA	3000	3000	2400	1250	4000
YF	1500	1500	1200	500	2000
YA	1500	1500	1200	500	2000
X	600	600	1500	200	1000
R	4000	4000	4000	1000	10,000
SIZE	2.5"	2.5"	2.5"	1.5"	4.0"

COMMENTS: THE MARK IIA, 2.5IN DIA. BALANCE WAS DAMAGED AFTER RUN 319. THE MARK IB WAS SUBSTITUTED FOR RUN 320 AND SUBSEQUENT RUNS

TABLE II.

TEST: ARC 11-707(1A9A)		DATE: 4-27-75																																		
DATA SET IDENTIFIER		DATA SET/RUN NUMBER COLLATION SUMMARY																																		
DATA SET IDENTIFIER	CONFIGURATION	SCHD. PARAMETERS/VALUES		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)						TEST RUN NUMBERS																									
		α	β		δ_e	δ_r	δ_{FR}	L_0	0.6	0.9	1.1	1.25	1.4																							
RBMX 01	$\phi_{2A} + S_3 + T_9$	A	0	0	0	0	1.5	4	3	5	6	7																								
02		A	0	0	0	0	0.5	5	8	18	28	38	48																							
03		-B	B	0	0	0	0	4	9	19	29	39																								
04		-6	T	0	0	0	0	4	10	20	30	40																								
05		-4		0	0	0	0	4	11	21	31	41																								
06		-2		0	0	0	0	4	12	22	32	42																								
07		0		0	0	0	0	5	13	23	33	43	49																							
08		2		0	0	0	0	4	14	24	34	44																								
09		4		0	0	0	0	4	15	25	35	45																								
10		6		0	0	0	0	4	16	26	36	46																								
11		8		0	0	0	0	2	17	27	37	47																								
12		-B	C	0	0	0	0	2	97	102																										
13		-6		0	0	0	0	4	118	111																										
14		-4		0	0	0	0	4	98	103																										
15		-2		0	0	0	0	4	117	112																										
16		0		0	0	0	0	4	99	104																										
17		2		0	0	0	0	4	116	113																										
18		4		0	0	0	0	4	100	105																										

$\beta_C = -8, 4, 0, 4, 8$

$\alpha A = -8, -6, -4, -2, 0, 2, 4, 6, 8$

$\beta B = -8, -6, -4, -2, 0, 2, 4, 6, 8$

COEFFICIENTS

SCHEDULES

α OR β

IDVAR (1) IDVAR (2) NDV

DATE: 4 - 5

TEST: ARC - II - 707 (JA 90)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)				TEST RUN NUMBERS	
		α	β	δe	δR	δFR	ζ_0		0.6	0.9	1.1	1.25		
RBMx 19	$\phi_{2a} + S_3 + T_7$	6	C	0	-5	0	0.5	2				115	114	
20		8	T		-5		T	T				101	106	
21		-8			-10							60	69	
22		-6			T							61	70	
23		-4										62	71	
24		-2										63	72	
25		0										64	73	
26		2										65	74	
27		4										66	75	
28		6										67	76	
29		8										68	77	
30		-8				-15						78	88	
31		-6				T						79	89	
32		-4										80	90	
33		-2										81	91	
34		0										82	92	
35		2										83	93	
36		4										84	94	

	7	13	19	25	31	37	43	49	55	61	67	75	76
COEFFICIENTS													
IDVAR (1)													
IDVAR (2)													
NDV													

α OR β
SCHEDULES

TABLE II. CONTINUED

TEST: ARC 11-707 (IA...)		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: _____													
DATA SET IDENTIFIER	CONFIGURATION	SCHD. PARAMETERS/VALUES				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)																		
		α	β	δR	δFR		L_0	0.6	0.9	1.1	1.25														
RBMx 37	$\phi_{2A} + S_3 + T_9$	6	C	0	-15	0	0.5	2																	
38		8	T	T	-15	T	T	T																	
39		-8			-5																				
40		-1																							
41		0																							
42		4																							
43		8	T	T	T	T	T	T																	
44		A	0	0	0	-1.2	A	4	107	108	109	110													
1																									

75 76
7 13 19 25 31 37 43 49 55 61 67

IPVAR (1) IDVAR (2) NDV
COEFFICIENTS
 α OR β
SCHEDULES

TABLE II, CONTINUED

TEST: ARC 9T-707 (IAGB)		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 5-17-73																																									
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)																																												
		α	β	δe	δR	i_0	$\delta e f$		1.55	2.0	341	351	342	360	343	359	344	358	345	357	346	356	347	355	348	354	349	353	350	352	361	367	362	363	363	369	364	370	365	371	366	372	373	379	374	380							
R50x01	$0.2A + 5.3 + T_9$	A	0	0	0	0.5	0	2	1.55	2.0	341	351	342	360	343	359	344	358	345	357	346	356	347	355	348	354	349	353	350	352	361	367	362	363	363	369	364	370	365	371	366	372	373	379	374	380							
02		B	0	T	T	T	T	T																																													
03		6	T																																																		
04		4	T																																																		
05		2	T																																																		
06		0	T																																																		
07		-2	T																																																		
08		-4	T																																																		
09		-6	T																																																		
10		-8	T																																																		
11		-8	C																																																		
12		-4	T																																																		
13		0	T																																																		
14		4	T																																																		
15		6	T																																																		
16		8	T																																																		
17		-8	T																																																		
18		-4	T																																																		

α OR β SCHEDULES $\alpha(A) = -8, -6, -4, -2, 0, 2, 4, 6, 8$ COEFFICIENTS $\beta(C) = 8, 6, 4, 0, -4, -6, -8$ IDVAR (1) IDVAR (2) NDV
 TEST RUN NUMBERS: 7, 13, 15, 25, 31, 37, 43, 49, 55, 61, 67, 75, 76

TABLE II. CONTINUED

DATE: 5-17-73

DATA SET/RUN NUMBER COLLATION SUMMARY

TEST: ARC 97-707 (IA96)

DATA SET IDENTIFIER	CONFIGURATION	SCHD. PARAMETERS/VALUES						NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)		TEST RUN NUMBERS											
		α	β	δe	δR	i_0	δr		1.55	2.0	55	57	61	67	75	76	IDVAR (1)	IDVAR (2)	NDV			
R80x19	$\delta_{2A} + S_3 + T_9$	0	C	0	-10	0.5	0	2	375	381												
$\overset{\text{I}}{\text{20}}$		4	T	T	T	T	T	T	376	382												
21		6	T	↘	↘	↘	↘	T	377	383												
22		8	T						378	384												
23		-8	T						385	391												
24		-4	T		+15				386	392												
25		0	T						387	393												
26		4	T						388	394												
27		6	T						389	395												
28		8	T						390	396												

COEFFICIENTS

α OR β SCHEDULES

TABLE II. CONTINUED

TEST: ARC 8x7 - 707 (JA9C)				DATA SET/RUN NUMBER COLLATION SUMMARY																							DATE: 5-1-73												
DATA SET IDENTIFIER	CONFIGURATION	SCHD. PARAMETERS/VALUES						NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)						TEST RUN NUMBERS																								
		α	β	δc	δR	δFR	δo		2.5	3.0	3.5	40	45	50	55	60	65	70	75	80	85	90	95	100															
RBNx01	02A + 53 + T9	A	0	0	0	0	0.5	3	240	230	220																												
02		-8	B	T	T	T	T	T	241	231	221																												
03		-6	T	T	T	T	T	T	242	232	222																												
04		-4	T	T	T	T	T	T	243	233	223																												
05		-2	T	T	T	T	T	T	244	234	224																												
06		0	T	T	T	T	T	T	245	235	225																												
07		2	T	T	T	T	T	T	246	236	226																												
08		4	T	T	T	T	T	T	247	237	227																												
09		6	T	T	T	T	T	T	248	238	228																												
10		8	T	T	T	T	T	T	249	239	229																												
11		-8	C	T	T	T	T	T	267	256	250																												
12		-4	T	T	T	T	T	T	266	257	251																												
13		0	T	T	T	T	T	T	265	258	252																												
14		4	T	T	T	T	T	T	264	259	253																												
15		6	T	T	T	T	T	T	263	260	254																												
16		8	T	T	T	T	T	T	262	261	255																												
17																																							

α OR β SCHEDULES
 αA = -0.6, -4, -2, 0, 2, 4, 6, 8
 βB = -8, -6, -4, -2, 0, 2, 4, 6, 8

COEFFICIENTS
 βC = -8, -6, -4, 0, 4, 6, 8

TABLE II. CONTINUED

DATE: 5-1-73

DATA SET/RUN NUMBER COLLATION SUMMARY

TEST: ARC 8x7-707 (IARC)

DATA SET IDENTIFIER	CONFIGURATION	SCHED. PARAMETERS/VALUES		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)				TEST RUN NUMBERS					
		α	β		δ_e	δ_R	δ_e	δ_o						
RBNx 17	$S_{2A} + S_3 + T_9$	-8	0	0	-10	0	0.5	3	2.5	3.0	3.5	274	280*	268
18	—	-4	T	T	T	T	T	T	275	281*	269	276	282*	270
19	—	0	T	T	T	T	T	T	277	283*	271	278	284*	272
20	—	4	T	T	T	T	T	T	279	285*	273			
21	—	6	T	T	T	T	T	T						
22	—	8	T	T	T	T	T	T						

75 76

67 61 55 49 43

37 31 25

19 13 7

IDVAR (1) IDVAR (2) NDV

COEFFICIENTS

* NOTE: RUNS 280-285: A SCHEDULE 15:

— 0, -4, 0, 4, 8

α OR β SCHEDULES

TABLE II. CONTINUED

TEST: LINES 11-707 (OAL2A)		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 4-23-73		
DATA SET IDENTIFIER	CONFIGURATION	SCHD. PARAMETERS/VALUES					NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)						
		α	β	δe	δR	δFR		0.6	0.9					
01	B ₁₀ C ₅ D ₇ N ₂ E ₄ M ₉ N ₆ V ₃ R ₃ W ₆ F ₁₀	A	0	0	0	0	2	119	125					
02		0	B	T	T	T	T	120	126					
03		5	T					121	127					
04		10						122	128					
05		15						123	129					
06		20						124	130					
07		0	C					131	136					
08		5	T					132	137					
09		10						133	138					
10		15						134	139					
11		20						135	140					
12		0						141	146					
13		5						142	147					
14		10						143	148					
15		15						144	149					
16		20						145	150					
17		0	D	10	0			151	156					
18		5	D	10	0			152	160					

TEST RUN NUMBERS: 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS: α A = MAX, 0, 5, 10, 15, 20, 25; β B = -10, -5, 5, 10

COEFFICIENTS: β C = 8, -4, 0, 4, 8; β D = -10, 0, 10; β E = -5, 0, 5

COEFFICIENTS: IDVAR (1) IDVAR (2) NDV

DATE: 4-23-73

DATA SET/RUN NUMBER COLLATION SUMMARY

TEST: AMES 11-707 (0A12A)

DATA SET IDENTIFIER	CONFIGURATION	SCHD. PARAMETERS/VALUES				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)									
		α	β	δe	δR		δFR	0.6	0.9	43	49	55	61	67	75	76
RBP:19	$\beta_{10} C_7 N_2 E_3 M_3 N_6 V_5 R_3 W_6 E_1 10$	10	D	+10	0	0	2	153	157							
20		15	T	T	T	T	T	154	159							
21		20	T	T	T	T	T	155	158							
22		0	C	-10				161	166							
23		5	T	T				162	167							
24		10	T	T				163	168							
25		15	T	T				164	169							
26		20	T	T				165	170							
27		-4	E	-20				171	182							
28		0	C					172	181							
29		5	T	T				173	180							
30		10	T	T				174	179							
31		15	T	T				175	178							
32		20	T	T				176	177							
33		-4	E	0	40			183	189							
34		0	C	T	T			184	190							
35		5	T	T	T			185	191							
36		10	T	T	T			186	192							

α OR β SCHEDULES: $\alpha A = -MAX, 0, 5, 10, 15, 20, 25$
 $\beta B = -10, -5, 5, 10$

COEFFICIENTS: $\beta C = -8, -4, 0, 4, 8$
 $\beta D = -10, 0, 10$ $\beta E = -5, 0, 5$

IDVAR (1) IDVAR (2) NDV

TABLE II. CONTINUED

TEST: AMES 11-707 (OAI2A)	DATA SET/RUN NUMBER COLLATION SUMMARY				DATE: 1-23-73							
	DATA SET IDENTIFIER	CONFIGURATION	SCHD. PARAMETERS/VALUES		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)						
		α	β	δ_e		δ_R	δ_{FR}	0.6	0.9	1.1	1.25	1.4
REP:37	B ₀ S ₀ M ₀ N ₀ P ₀ Q ₀ M ₀ S ₀ P ₀	15	C	0	0	40		187	193			
38	⎵	20	C	0	0	40		188	194			
39	⎵	F	O	0	0	0						
40	⎵	0.5	G	0	0	0				199	197	195
41	⎵	-4	E	0	-10	0				200	198	196
42	⎵	-4	E	0	-20	0		201	202			
43	⎵	-4	E	10	0	0		203	204			
44	⎵	-4	E	-10	0	0		205	206			
45	⎵	-4	E	0	0	0		207	208			
46	⎵	H	O	0	0	0		210	209			
47	⎵	-5	I	0	0	0		216	211			
48	⎵	-10	I	0	0	0		215	212			
								214	213			
7												
13												
19												
25												
31												
37												
43												
49												
55												
61												
67												
75												76

α OR β SCHEDULES $\alpha_F = -4.5, -3.5, -1.5, 0.5, 2.5, 4.5, 6.6, 8.6, 10, 15$ $\alpha_H = 0, -5, -10, -15$ $\alpha_{IDVAR} = 0, -5, -10, -15$
 $\beta_G = -8, -4, -2, 0, 2, 4, 8$ $\beta_I = -10, -5, 5, 10$

TABLE II. CONTINUED

DATE: 5-9-73

DATA SET/RUN NUMBER COLLATION SUMMARY

TEST: 87-707 (QA12C)

DATA SET IDENTIFIER	CONFIGURATION	SCHD. PARAMETERS/VALUES		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)																																					
		α	β		δC	δR	δFR	2.5	3.5	TEST RUN NUMBERS																																
								290	286	293	289	292	288	291	287	294	295	299	296	303	300	304	301	305	302	309	306	310	307	311	305	317	314	318	315	319	316	322	320	323	321	
PBQx01	B1aC-G-N-E-N-N-N-V-R-W ₁ F	A	0	0	0	40	2	290	286	293	289	292	288	291	287	294	295	299	296	303	300	304	301	305	302	309	306	310	307	311	305	317	314	318	315	319	316	322	320	323	321	
02		0	B	T	T	T																																				
03		10	C	T	T	T																																				
04		10	C	T	T	T																																				
05		0	D	T	T	T																																				
06		10	D	T	T	T																																				
07		20		T	T	T																																				
08		0		T	T	T																																				
09		10		T	T	T																																				
10		20		T	T	T																																				
11		0		T	T	T																																				
12		10		T	T	T																																				
13		20		T	T	T																																				
14		0		T	T	T																																				
15		10		T	T	T																																				
16		20		T	T	T																																				
17		E	0	T	T	T																																				
18		30	D	T	T	T																																				

COEFFICIENTS

α OR β SCHEDULES $\alpha A = 0, 5, 10, 15, 20$
 $\beta B = 3, -3$

IDVAR (1) IDVAR (2) NDV

$\beta C = 6, 3, -3, -6$
 $\beta D = 6, 3, 0, -3, -6$

TABLE III. MODEL COMPONENT DIMENSIONAL DATA

MODEL COMPONENT: B10 Body

GENERAL DESCRIPTION: Fuselage, 2A Configuration, Lightweight Orbiter, per
Rockwell Lines VL70-000089 "B."

Scale Model = .030

DRAWING NUMBER:

VL70-000089 "B"
VL70-000092, 93, 94 "A"

DIMENSIONS:

	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length ~ IN	<u>1328.3</u>	<u>39.8490</u>
Max. Width ~ IN (@X ₀ = 1528.3)	<u>265.0</u>	<u>7.9500</u>
Max. Depth ~ IN. (@X ₀ = 1480.52)	<u>248.0</u>	<u>7.4400</u>
Fineness Ratio	<u>5.012</u>	<u>5.012</u>
Area ~ Ft ²		
Max. Cross-Sectional Planform	<u>456.4</u>	<u>.41076</u>
Wetted		
Base		

TABLE III. (CONTINUED)

MODEL COMPONENT: Canopy - C5

GENERAL DESCRIPTION: 2A Configuration per Lines VL70-000092

Scale Model = .030

DRAWING NUMBER: VL70-000092

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length (STA FWD Bulkhead)	<u>391.0</u>	<u>11.730</u>
Max. Width (T.E. Bulkhead)	<u>560.0</u>	<u>16.800</u>
Max. Depth (WP = 42.9 22 to = 500)	<u> </u>	<u> </u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. (CONTINUED)

MODEL COMPONENT: Manipulator Housing D-7

GENERAL DESCRIPTION: 2A Configuration per Rockwell Lines VL70-000093

Scale Model = .030

DRAWING NUMBER: VL70-000093

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length ~ IN.	881.00	26.430
Max. Width ~ IN.	51.00	1.530
Max. Depth ~ IN.	23.00	.690
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform		
Wetted		
Base		

E Fuselage BP = 0.00
 WP = 500.0 IN. FS
 X.426.0 to 1307.0 IN. FS

TABLE III. (CONTINUED)

MODEL COMPONENT: WING-W87 New Light Weight Orbiter

GENERAL DESCRIPTION: Orbiter Configuration Per Lines VL70-000093.

NOTE: (Dihedral Angle is defined at the lower surface of the Wing at the 75.33% element line projected into a plane perpendiculary.

Scale Model = .030

TEST NO. _____ DWG. NO. VL70-000093

DIMENSIONS: FULL-SCALE MODEL SCALE

TOTAL DATA

Area (Theo.) Ft ²		
Planform	2690.00	2.42100
Span (Theo In.)	936.68	28.10040
Aspect Ratio	2.265	2.265
Rate of Taper	1.177	1.177
Taper Ratio	0.200	0.2000
Dihedral Angle, degrees	3.5000	3.500
Incidence Angle, degrees	3.000	+3.00
Aerodynamic Twist, degrees	3.500	+3.000
Sweep Back Angles, degrees		
Leading Edge	45.00	45.00
Trailing Edge	-10.24	-10.24
0.25 Element Line	35.209	35.209
Chords:		
Root (Theo) B.P.O.O.	689.24	20.67720
Tip, (Theo) B.P. 46834	137.85	4.13550
MAC	474.81	14.24430
Fus. Sta. of .25 MAC	1136.89	34.10670
W.P. of .25 MAC	299.20	8.97840
193.13 B.L. of .25 MAC	182.13	5.46390

EXPOSED DATA

Area (Theo) Ft ²	1752.29	1.57706
Span, (Theo) In. BP108 to 468.341	720.68	21.62040
Aspect Ratio	2.058	2.058
Taper Ratio	.2451	.2451
Chords		
Root BP108	562.40	16.8720
Tip 1.00 $\frac{b}{2}$	137.85	4.13550
MAC	393.03	11.79090
Fus. Sta. of .25 MAC	1185.31	35.55930
W.P. of .25 MAC	300.207	9.00621
B.L. of .25 MAC	143.76	4.31280
Airfoil Section (Rockwell Mod NASA) XXXX-64		
Root $\frac{b}{2}$ = .425	.10	.10
Tip $\frac{b}{2}$ = 1.00	.12	.12

Data for (1) of (2) Sides

Leading Edge Cuff		
Planform Area Ft ²	120.33	1.0830
Leading Edge Intersects Fus M. L. @ Sta	560.0	16.80
Leading Edge Intersects Wing @ Sta	1035.0	31.050

TABLE III. (CONTINUED)

MODEL COMPONENT: Elevon E-18

GENERAL DESCRIPTION: 2A Configuration Per W-87 Rockwell Lines VL 70-000093

Data for (1) of (2) Sides

Scale Model = .030

DRAWING NUMBER: VL 70-000093

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area ~ Ft ²	<u>205.52</u>	<u>.18497</u>
Span (equivalent) ~ IN.	<u>353.34</u>	<u>10.60020</u>
Inb'd equivalent chord	<u>114.78</u>	<u>3.44340</u>
Outb'd equivalent chord	<u>55.00</u>	<u>1.6500</u>
Ratio movable surface chord/ total surface chord.		
At Inb'd equiv. chord	<u>.208</u>	<u>.208</u>
At Outb'd equiv. chord	<u>.400</u>	<u>.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Tailing Edge	<u>-10.24</u>	<u>-10.24</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
Area Moment (Normal to hinge line) Ft ³	<u>1548.07</u>	<u>.04180</u>
Product of Area Moment		

TABLE III. (CONTINUED)

MODEL COMPONENT: VERTICAL - V5 (Light Weight Orbiter Configuration)

GENERAL DESCRIPTION: Centerline Vertical Tail, Double Wedge Airfoil with Rounded Leading Edge

Scale Model = .030

DRAWING NUMBER:

VL70-000095

DIMENSIONS:

FULL-SCALE

MODEL SCALE

TOTAL DATA

Area (Theo) Ft^2	<u>413.25</u>	<u>.37192</u>
Planform		
Span (Theo) In	<u>315.72</u>	<u>9.47160</u>
Aspect Ratio	<u>1.675</u>	<u>1.675</u>
Rate of Taper	<u>0.507</u>	<u>0.507</u>
Taper Ratio	<u>.404</u>	<u>.404</u>
Sweep Back Angles, degrees		
Leading Edge	<u>45.000</u>	<u>45.000</u>
Trailing Edge	<u>26.249</u>	<u>26.249</u>
0.25 Element Line	<u>41.130</u>	<u>41.130</u>
Chords:		
Root (Theo) WP	<u>268.50</u>	<u>8.05500</u>
Tip (Theo) WP	<u>108.47</u>	<u>3.25410</u>
MAC	<u>199.81</u>	<u>5.99430</u>
Fus. Sta. of .25 MAC	<u>1463.50</u>	<u>43.90500</u>
W. P. of .25 MAC	<u>635.522</u>	<u>19.06566</u>
B. L. of .25 MAC	<u>0.00</u>	<u>0.00</u>
Airfoil Section		
Wedge Angle Deg	<u>10.000</u>	<u>10.000</u>
Wedge Angle Deg	<u>14.920</u>	<u>14.920</u>
Leading Edge Radius IN.	<u>2.00</u>	<u>.06</u>
Void Area Ft^2	<u>13.17</u>	<u>.01185</u>
Blanketed Area Ft^2	<u>12.67</u>	<u>.01140</u>

TABLE III. (CONTINUED)

MODEL COMPONENT: R-5 Rudder

GENERAL DESCRIPTION: ZA Configuration per Rockwell Lines VL 70-000095

Scale Model = .030

DRAWING NUMBER: VL 70-000095

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area ~ Ft ²	<u>106.38</u>	<u>.09574</u>
Span (equivalent) ~ IN.	<u>201.0</u>	<u>6.030</u>
Inb'd equivalent chord	<u>91.585</u>	<u>2.74755</u>
Outb'd equivalent chord	<u>50.833</u>	<u>1.52499</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.83</u>	<u>34.83</u>
Tailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
Area Moment (Normal to hinge line) ~ Ft ³	<u>526.13</u>	<u>.01421</u>
Product of Area and Mean Chord		

TABLE III. (CONTINUED)

MODEL COMPONENT: OMS Pod M3

GENERAL DESCRIPTION: 2A Light Weight Configuration per Rockwell Lines

VL70-000094A

Scale Model = .030

DRAWING NUMBER: VL70-000094A

DIMENSIONS:

FULL-SCALE

MODEL SCALE

Length

346.0

10.380

Max. Width $X_1 = 1450.0$

108.0

3.240

Max. Depth $X_0 = 1500.0$

113.0

3.390

Fineness Ratio

Area

Max. Cross-Sectional

Planform

Wetted

Base

L of OMS Pod

WP = 463.9 IN. FS WP 400 + 63.9 = 463.9

BP = 80.0 IN. FS

Length 1214.0 to 1560.0' = 346.0 IN. FS

TABLE III. (CONTINUED)

MODEL COMPONENT: FL Body Flap

GENERAL DESCRIPTION: 2A Configuration per Rockwell Lines VL70-000094A

Scale Model = .030

DRAWING NUMBER: VL70-000094A

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	<u>84.70</u>	<u>2.541</u>
Max. Width	<u>265.00</u>	<u>7.950</u>
Max. Depth	<u> </u>	<u> </u>
Fineness Ratio	<u> </u>	<u> </u>
Area ~ Ft ²		
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u>142.64</u>	<u>.12838</u>
Wetted	<u> </u>	<u> </u>
Base Ft ²	<u>38.65</u>	<u>.03478</u>

TABLE III. (CONTINUED)
 MODEL DIMENSIONAL DATA

MODEL COMPONENT : S3-Booster Solid Rocket Motor
 GENERAL DESCRIPTION : 2A Configuration Per Rockwell Lines VL77-000012
& VL72-000061 "B"
Body of Revolution; Data for (1) of (2) Sides
Scale Model = .030
 DRAWING NUMBER : VL 77-000012

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length -IN.	<u>1732.0</u>	<u>51.96</u>
Max Width (DIA) IN. BSRM Tank	<u>142.0</u>	<u>4.260</u>
Max Depth (DIA) Aft Skirt	<u>259.0</u>	<u>7.77</u>
Fineness Ratio L/D	<u>6.687</u>	<u>6.687</u>
Area ~ Ft ²		
Max. Cross-Sectional (Aft Skirt)	<u>365.87</u>	<u>.32928</u>
Planform		
Wetted		
Base		

Ref.
 FS (Orbiter) = 0.00 = 747.99 IN. ET = 200.0 IN. BSRM
 WP (BSRM) = WP 400(Orbiter) - 344.413 = 55.587 IN.
 BP (Orbiter) = 0.00 = 243.0 IN. BSRM

TABLE III. (CONCLUDED)

MODEL COMPONENT: EXTERNAL TANK - T9

GENERAL DESCRIPTION: 2A Configuration

NOTE: T9 identical to T8 W/O retro pkg., nose w/30"R F.S.

DRAWING NUMBER

NONE

DIMENSION:

FULL SCALE

MODEL SCALE

Length - IN.

1858

55.740

Max Width (Dia) - IN.

324.0

9.720

Max Depth

5.73457

5.73457

Fineness Ratio L/D

Area - FT²

Max Cross-Sectional

572.56

0.51530

Planform

Wetted

Base

Nose, Radius, IN.

30.0

ORBITER BODY

ORBITER STATION ~ X _o		RADIAL LOCATION θ ~ DEGREES																		
FULL	MODEL	X _o /A	0	20	40	55	70	90	105	110	120	135	142	150	157	162	165	169	172	180
200	6.00	0	20																	23
210	6.30	.008	21	22			28	29		30	39			31						32
225	6.75	.019	24	27	26		37	38		39	48			40						41
245	7.35	.034	33	36	35		46	47		48	57			49						50
280	8.40	.060	42	45	44		55	56		57	68			58						59
360	11.40	.136	51	54	53						73			61						72
400	12.00	.151									80			69						83
410	12.30	.158	62	63	64	65	66	67		68	88			81						91
430	12.90	.173									88			89						99
460	13.80	.196									96			97						107
500	15.00	.226	74	75	76	77	78	79			104			105						115
560	16.80	.271	84	84	85		86	87			112			113						
625	18.75	.320	92	92	93		94	95			121			122						
725	21.75	.395	100	100	101		102	103			127			128						
880	26.40	.512	108	108	109		110	111			134			136						
980	29.40	.587	116	116	117		119	120			143			145						
1080	32.40	.662			118		125	126			151			153						
1120	35.40	.738					131	132			167			169						
1245	37.35	.787					140	141			171									
1300	39.00	.828					148	149			172									
1375	41.25	.885					156	157			173									
1430	42.90	.926					164	165			174									
1480	44.40	.964	163																	
1530 ^a	45.90	1.001																		
1530 ^b	45.90	1.001																		

a OMS POD, INSIDE

b OMS POD, OUTSIDE

a, Orbiter body
Table IV. Pressure Orifice Locations

ORBITER BASE

LOCATION	ORIFICE NUMBERS
ORBITER BASE (INTEGRATED)	1, 2, 3, 4
LEFT MPS NOZZLE BASE	5
UPPER MPS NOZZLE BASE	6
ACPS BASE AREA ON OMS POD	7
OMS NOZZLE BASE	8
OMS POD BASE	9
ORBITER BASE (STING MOUNT)	11, 12, 13, 14
ORBITER STING CAVITY	15, 16

BODY FLAP LWR SURFACE

ORB. STA. ~ X ₀	θ ~ DEG
FULL MODEL	0 40
1580	47.40 175 176

MPS NOZZLE

X ~ IN. FWD BASE	θ ~ DEG					
	0	90	135	180	225	270
25	0.75	181	182	183	184	185
50	1.50	187	188	189	190	191
75	225		193	194	195	196
					197	197

OMS NOZZLE

X ~ IN. FWD BASE	θ ~ DEG		
	MODEL	135	180
10	0.30	177	178
20	0.60		180
			225
			179

45

VERTICAL TAIL

WATER FLAKE ~ Z ₀	MODEL	γ	X/C ~ THEORETICAL VERTICAL CHORD										
			0	.05	.15	.30	.52	.65	.775	.90			
525	15.75	.079											
550	16.50	.158	L	410	411	412	413	414	415	416			
600	18.00	.316	L R	420	421	422	423	424	425	426	427		
690	20.70	.60	L R	430	431	432	433	434	435	436	437		
765	22.95	.84	L R	440	441	442	443	444	445	446	447		
792	23.76	.925	L R	450	451	452	453	454	455	456	457		

b. Orbiter Base, Body Flap Lower Surface, and Vertical Tail

Esle IV. Continued.

ORBITER WING

ORBITER B.P. - Y ₀		X/C - THEORETICAL WING CHORD																					
FULL MODEL	γ	-0.49	-0.35	-0.25	-0.15	-0.033	0.0	0.05	0.15	0.25	0.40	0.55	0.60	0.65	0.70	0.725	0.75	0.775	0.80	0.85	0.90	0.95	
140	.299	U	201	202	203	204	205	206	207	208	209	210	211	212	221	222	223	224	225	226	227	228	229
		L	301	302	303	304	305	306	307	308	309												
170	.364	U																					
		L	210	311	312																		
200	.427	U				220																	
		L																					
240	.534	U					230	231	232	233	234	235											
		L						338	339	340	341	342											
315	.673	U						251	252	253	254	255											
		L						351	352	353	354	355											
365	.750	U						261	262	263													
		L						361	362	363				264									
415	.887	U						271	272	273	274												
		L						371	372	373	374												

U - UPPER SURFACE L - LOWER SURFACE

γ	X/C LOCAL WING CHORD
.299	0, .094, .229, .362, .497, .700, .834, .865, .900, .965
.364	0, .086, .246
.427	0, .081, .177, .402, .565, .760, .805, .857, .905, .953
.534	SAME AS THEORETICAL CHORD
.673	
.750	
.887	

c. Orbiter Wing
Table IV. Continued.

EXTERNAL TANK

TANK STA ~ XT		θ ~ DEG										
FULL	MODEL	XT/IT	0	30	60	90	120	135	150	165	180	270
316.	9.48	0	610			614					619	620
317.7	9.53	.001	611			624	625		627		629	
400	12.00	.045	621	622	623	634	635		637	638	639	
520	15.60	.110	631	632	633	644	645		647	646	649	
640	19.20	.174	641	642	643	654	655		657	658	659	
670	20.10	.191	651	652	653	664	665		667	668	669	
710	21.30	.212	661	662	663	674	675	676	677	678	679	
750	22.50	.234	671	672	673	684	685		687	688	689	
850	25.50	.287	681	682	683	694	695	696	697	698	699	
950	28.50	.341	691	692	693	704	705		707	708	709	
1050	31.50	.395	701	702	703	714	715	716	717		719	
1150	34.50	.449	711	712	713	724	725		727	728	729	
1250	37.50	.503	721	722	723	734	735	736	737		739	
1350	40.50	.557	731	732	733	744	745		747	748	749	
1500	45.00	.637	741	742	743	754	755	756	757		759	
1700	51.00	.745	751	752	753		765	766	767	768		
1900	57.00	.853	761	762	763		775	776	777			
2040	61.20	.929	771	772	773	774						
STING CAVITY			601									604
BASE			602			603						

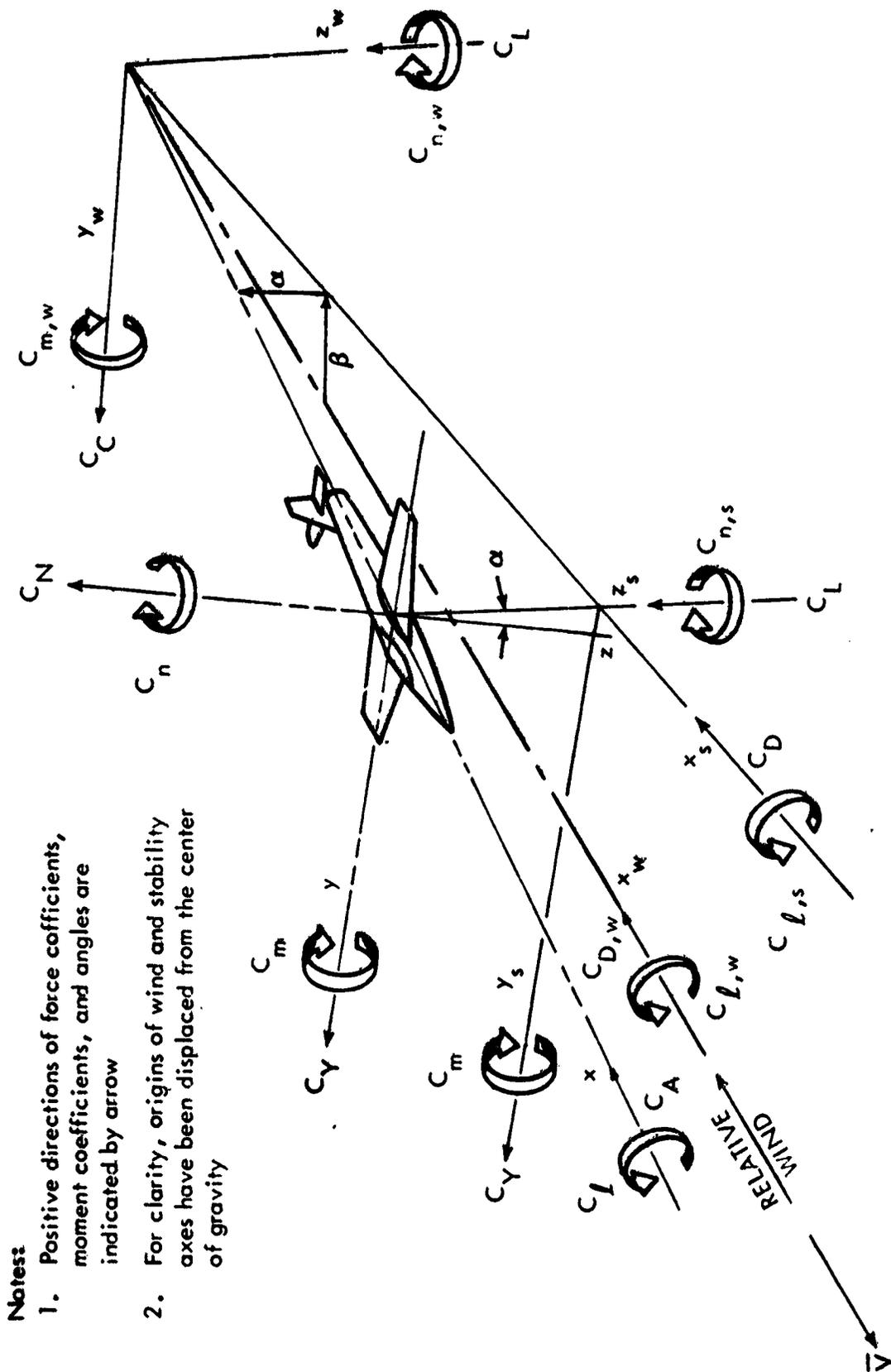
d. External Tank
Table IV. Continued.

LEFT SRM

SRM STATION ~ XS			θ ~ DEG							
FULL	MODEL	XS/Ls	0	45	90	135	180	225	270	315
200	6.00	0	810							
260	7.80	.034	811	812	813	814	815	816	817	818
370	11.10	.097	821	822	823	824	825	826	827	828
400	12.00	.114	831	832	833	834	835	836	837	838
450	13.50	.142	841	842	843	844	845	846	847	848
550	16.50	.199	851	852	853	854	855	856	857	858
700	21.00	.284	861		863		865	866	867	868
850	25.50	.370	871		873		875		877	
1050	31.50	.484	881		883		885			
1250	37.50	.597	891		893		895			
1450	43.50	.711	901		903		905		907	
1650	49.50	.825	911		913		915		917	
1750	52.50	.882	921	922	923	924	925	926	927	928
1790	53.70	.904	931	932	933	934	935	936	937	938
1850	55.50	.939	941	942	943	944	945	946	947	948
1900	57.00	.967	951	952	953	954	955	956	957	958
NOZZLE BASE			801							
SKIRT BASE			802		803		804		805	

e. Left SRM

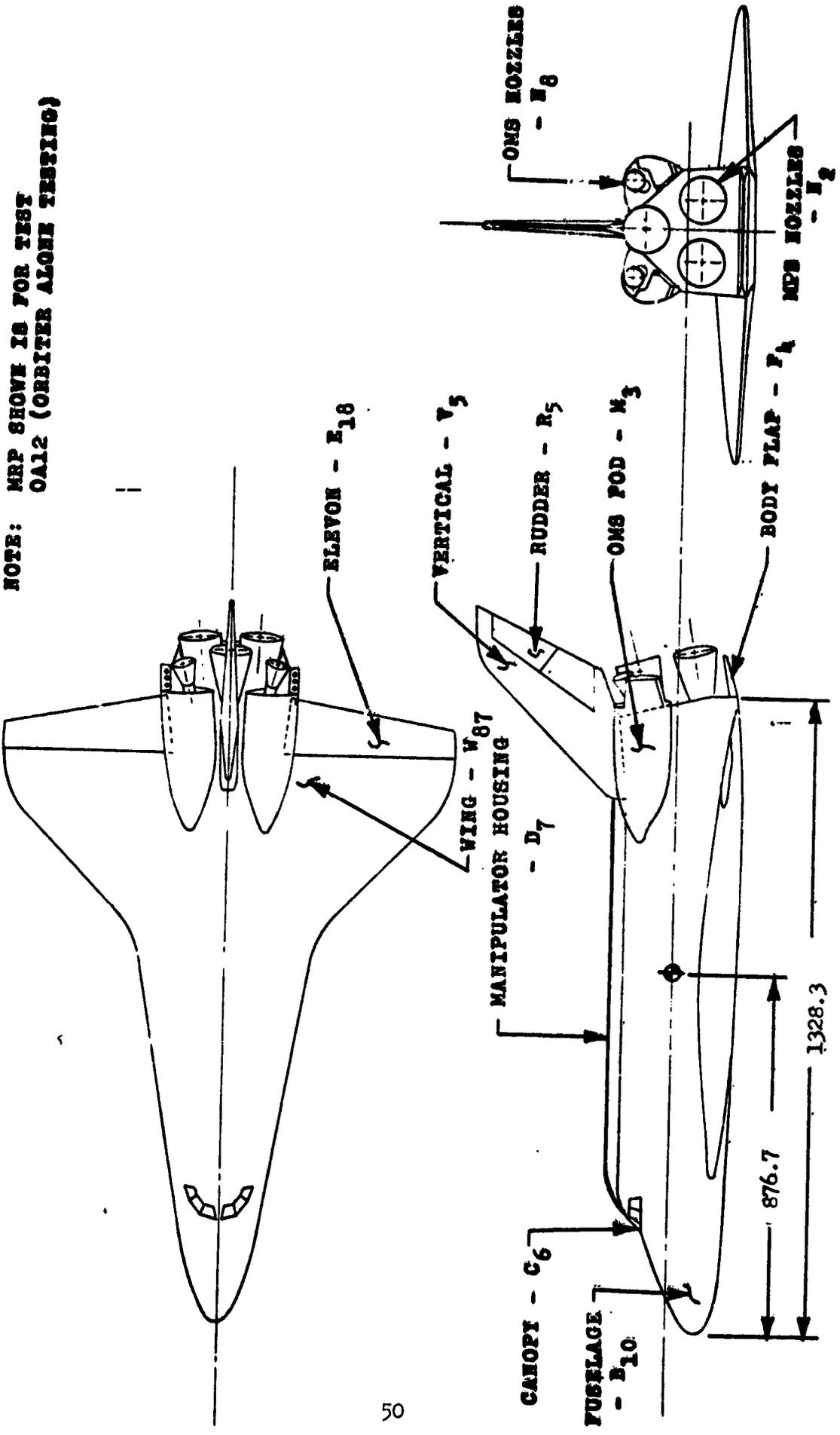
Table IV. . Concluded.



- Notes:**
1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrow
 2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

Figure 1. - Axis Systems.

NOTE: MRP SHOWS IS FOR TEST
OAL12 (ORBITER ALONE TESTING)

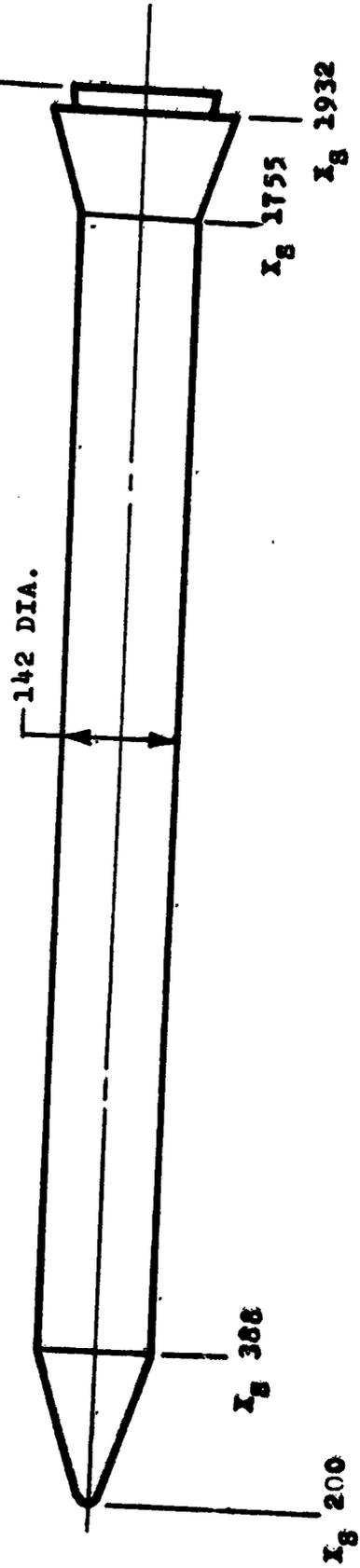


a. Orbiter, O2A

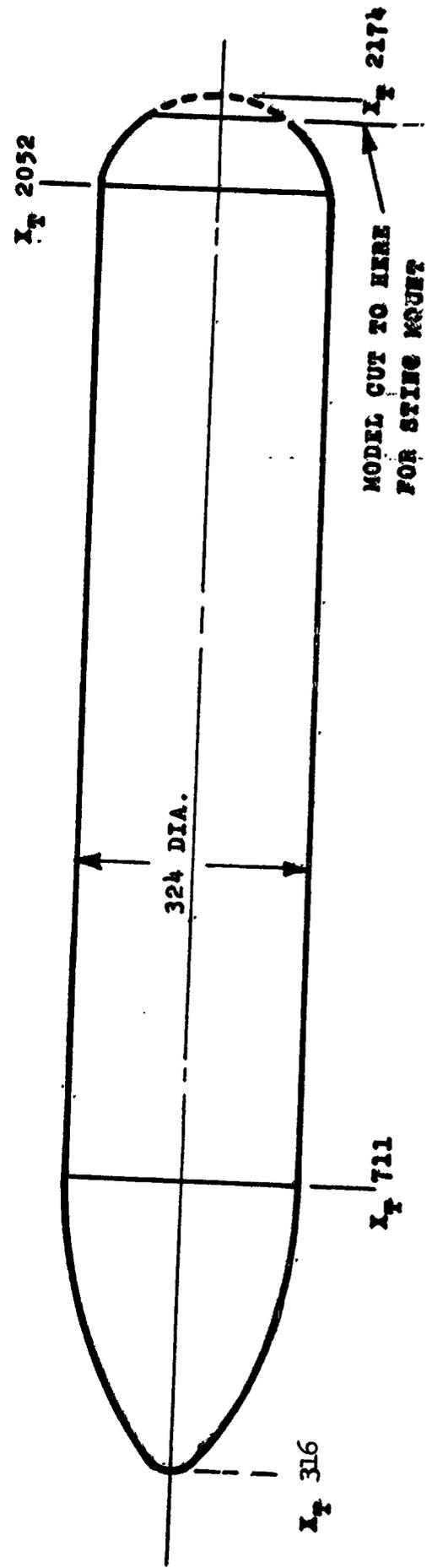
Figure 2. - Model Sketches.

SRM S₃

X_T 1958

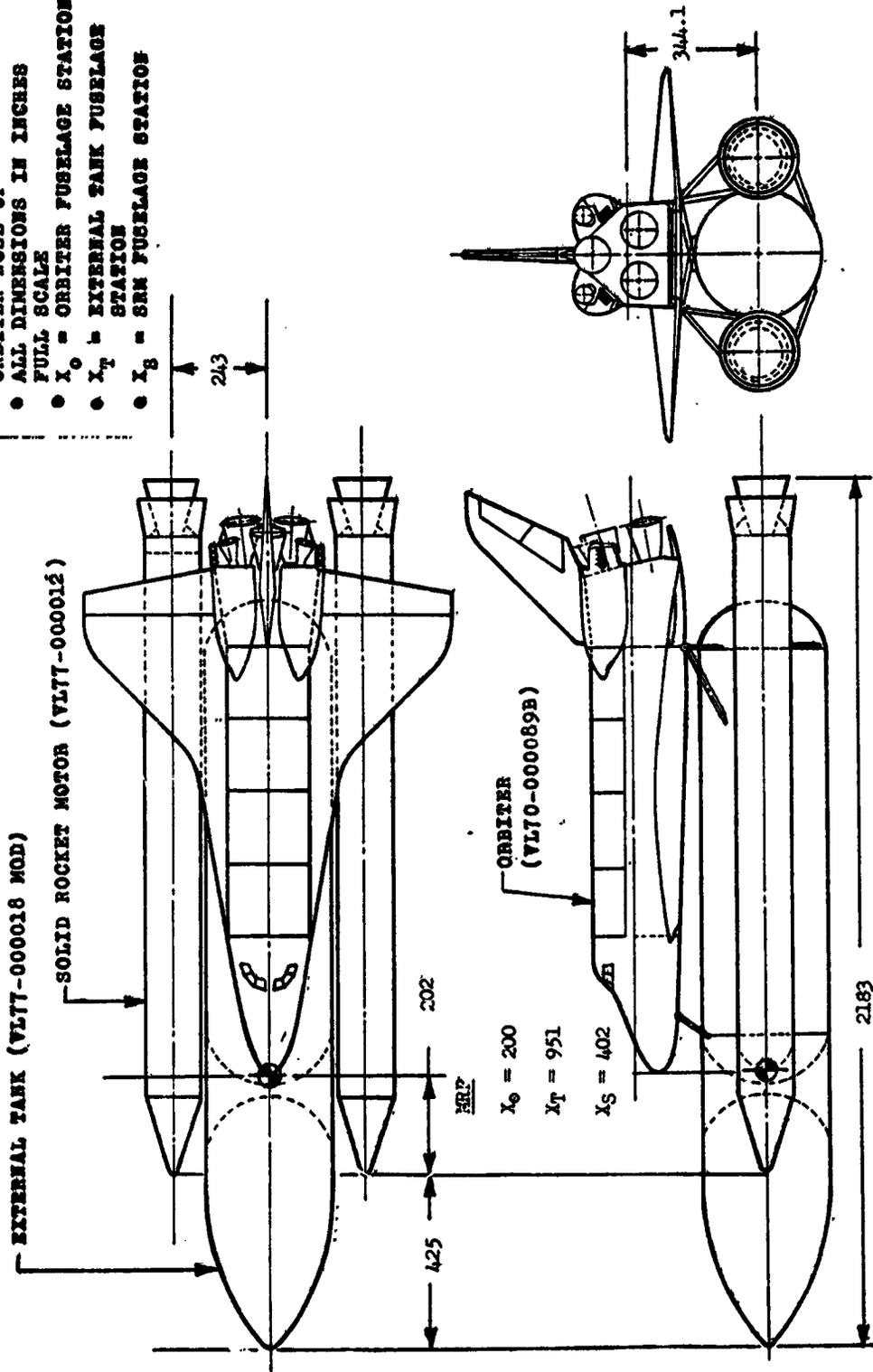


EXTERNAL TANK T₉



b. SRM, S₃, and External Tank, T₉
Figure 2. - Continued.

- NOTES:**
- ORBITER INCIDENCE ANGLE RELATIVE TO TANK CL IS 0.5°
 - ORBITER NOSE UP
 - ALL DIMENSIONS IN INCHES
 - FULL SCALE
 - X_0 = ORBITER FUSELAGE STATION
 - X_T = EXTERNAL TANK FUSELAGE STATION
 - X_B = SRM FUSELAGE STATION



c. Integrated Vehicle
Figure 2. - Concluded.



Fig. 1. Turbine (No. 1) in the test rig. The turbine is mounted on a vertical shaft. The blades are visible in the center of the image.



b. Isolated Orbiter (Entry Configuration) Mounted in the ARC 8x7 Ft. Tunnel

Figure 3. - Concluded.

TABULATED PRESSURE DATA

DATE 21 SEP 73

TABLATED PRESSURE DATA - 1A9B

(RBCB01) (24 MAY 73)

AMES 97-707 1A9 OGA + S3 + T9 ORBITER FUSELAGE

PARAMETRIC DATA

BETAT = .000 ORBINC = .900
 RUDBER = .000 ELEVON = .000
 RUDFLR = .000

REFERENCE DATA

SREF = 2.4210 SS.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 DREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0010 SCALE

MACH (1) = 1.555 ALPHAT (1) = -8.400

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.0000	.0020	.0075	.0188	.0339	.0632	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120				
PHI	.0000	1.4930	1.0030	.4370	-.1370	.0090	.0290	.1440	.1460	.1490	.1980	.2990	.3480	.4270	-.1690	-.1090	-.1070	.0000	-.0350	-.0110
20.000	.4360	-.0990	-.0010	.0370	.0290	.1460	.1490	.1980	.2990	.3480	.4270	-.1690	-.1090	-.1070	.0000	-.0350	-.0110	.0000	-.0350	-.0110
40.000	.4990	-.0630	.0460	.0760	.0290	.1460	.1490	.1980	.2990	.3480	.4270	-.1690	-.1090	-.1070	.0000	-.0350	-.0110	.0000	-.0350	-.0110
55.000	.5110	-.0550	.0690	.0670	.0290	.1460	.1490	.1980	.2990	.3480	.4270	-.1690	-.1090	-.1070	.0000	-.0350	-.0110	.0000	-.0350	-.0110
70.000	.5040	-.0300	.0830	.0810	.0290	.1460	.1490	.1980	.2990	.3480	.4270	-.1690	-.1090	-.1070	.0000	-.0350	-.0110	.0000	-.0350	-.0110
90.000	.4830	.0170	.1120	.0810	.0290	.1460	.1490	.1980	.2990	.3480	.4270	-.1690	-.1090	-.1070	.0000	-.0350	-.0110	.0000	-.0350	-.0110
120.000	.5190	.0840	.2320	.5370	.0290	.1460	.1490	.1980	.2990	.3480	.4270	-.1690	-.1090	-.1070	.0000	-.0350	-.0110	.0000	-.0350	-.0110
142.000	.5690	.1980	.3480	.8740	.0290	.1460	.1490	.1980	.2990	.3480	.4270	-.1690	-.1090	-.1070	.0000	-.0350	-.0110	.0000	-.0350	-.0110
150.000	.5900	.1980	.3480	.8740	.0290	.1460	.1490	.1980	.2990	.3480	.4270	-.1690	-.1090	-.1070	.0000	-.0350	-.0110	.0000	-.0350	-.0110
157.000	.5900	.1980	.3480	.8740	.0290	.1460	.1490	.1980	.2990	.3480	.4270	-.1690	-.1090	-.1070	.0000	-.0350	-.0110	.0000	-.0350	-.0110
162.000	.5900	.1980	.3480	.8740	.0290	.1460	.1490	.1980	.2990	.3480	.4270	-.1690	-.1090	-.1070	.0000	-.0350	-.0110	.0000	-.0350	-.0110
165.000	.5900	.1980	.3480	.8740	.0290	.1460	.1490	.1980	.2990	.3480	.4270	-.1690	-.1090	-.1070	.0000	-.0350	-.0110	.0000	-.0350	-.0110
169.000	.5900	.1980	.3480	.8740	.0290	.1460	.1490	.1980	.2990	.3480	.4270	-.1690	-.1090	-.1070	.0000	-.0350	-.0110	.0000	-.0350	-.0110
172.000	.5900	.1980	.3480	.8740	.0290	.1460	.1490	.1980	.2990	.3480	.4270	-.1690	-.1090	-.1070	.0000	-.0350	-.0110	.0000	-.0350	-.0110
180.000	.5900	.1980	.3480	.8740	.0290	.1460	.1490	.1980	.2990	.3480	.4270	-.1690	-.1090	-.1070	.0000	-.0350	-.0110	.0000	-.0350	-.0110

X/LB

.5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI

.000	-.0870	-.0890	-.0570	-.0270	-.0010	.0300	.0540	.0530	.0540	.0370	.3450
40.000	-.1130	-.1940	-.1920	-.2830	-.1710	-.0150	-.0040	-.0150	-.0040	-.0150	-.0040
70.000	.0370	.1010	.0420	-.0050	-.0260	.4450	-.0410	.0070	.0040	.0690	.0040
90.000	.1110	.0610	.0270	-.0290	-.0250	.3840	.5350	.1750	.1100	.0690	.0690
105.000	.1380	.0670	.0280	-.0600	-.0240	.3840	.5350	.1750	.1100	.0690	.0690
110.000	.2870	.0650	-.1310	-.0440	-.0150	.3840	.5350	.1750	.1100	.0690	.0690
120.000	.6980	.4450	-.0410	.0070	.0040	.3840	.5350	.1750	.1100	.0690	.0690
135.000	.0540	.0360	.3840	.5350	.1750	.1100	.0690	.0690	.0690	.0690	.0690
150.000	.0530	.0540	.0370	.3450	.0370	.3450	.0370	.3450	.0370	.3450	.0370
165.000	.0540	.0370	.3450	.0370	.3450	.0370	.3450	.0370	.3450	.0370	.3450
180.000	.0540	.0370	.3450	.0370	.3450	.0370	.3450	.0370	.3450	.0370	.3450

AMES 97-707 IAS OCA + S3 + T9 ORBITER FUSELAGE

(RBC801)

MACH (1) = 1.555 ALPHAT(2) = -6.330

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0100	.0339	.0602	.1355	.1506	.1561	.1732	.1958	.2259	.2711	.3210	.3953	.5121
PHI															
20.140	1.4710	1.0110	.4350	-.1470	-.0860	.0290	.1360	.1300	.1050	.0250	.0170	.1100	.1100	-.0130	-.0730
40.140			.4510	-.1680	-.0350	.0340	.1300	.1150	.0200	.0200	.0370	.0230	.0230	-.0220	-.0660
55.140			.5150	-.0460	.0800	.1860	.1740	.0990	.0990	.0990	.0370	.0230	.0230	-.0220	-.0660
70.140			.4940	-.0190	.0760	.2340	.2790	.1420	.1420	.1420	-.1640	.2330	.2330	-.0690	.0930
90.140	1.0230		.4660	.0150	.0960	.3060	.3430	.0220	.0220	.0220	-.2070	.2040	.2040	-.0630	.0430
120.140			.4830	.0720	.1950	.5230	.4250	.0210	.0210	.0210	-.2170	.1720	.1720	-.1110	-.0380
142.140			.5190	.1600	.3000	.8070	.6820	.0200	.0200	.0200	-.1330	.0200	.0200	-.0670	-.0420
157.140							.8780								
162.140							.5920								
165.140							.5980								
169.140															
172.140															
180.140	1.4710	1.0570	.4650	.2440	.3410	1.0390	.8360	.0200	.0200	.0200	-.1110	-.0580	-.0580	-.0460	-.0530
X/LB	.5973	.6626	.7380	.7869	.8288	.8648	.9262	.9639	1.0015	1.0392					

SECTION (2) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0100	.0339	.0602	.1355	.1506	.1561	.1732	.1958	.2259	.2711	.3210	.3953	.5121
PHI															
20.140	1.4570	1.0450	.4750	-.1420	-.1360	.0780	.1250	.1190	.0300	.0200	.0200	.0540	.0540	.0410	-.0540
40.140			.4820	-.0910	-.1190	.0730	.1190	.1130	.0000	.0000	.0370	.0230	.0230	-.0320	-.0540
55.140			.5200	-.0640	-.0310	.0930	.1490	.1330	.0820	.0820	.0370	.0230	.0230	-.0320	-.0540
70.140			.5120	-.0380	.0600	.1770	.1490	.0820	.0820	.0820	-.1770	.2540	.2540	-.0910	.0290
90.140	1.0450		.4870	-.0140	.0630	.2100	.2620	.1110	.1110	.1110	-.2110	.2210	.2210	-.0940	.0330
120.140			.4480	-.0440	.0770	.2280	.3320	.0200	.0200	.0200	-.2250	.1940	.1940	-.1340	-.0340
142.140			.4460	.0570	.1600	.4610	.4230	.0200	.0200	.0200	-.1330	.0200	.0200	-.0670	-.0420

MACH (1) = 1.555 ALPHAT(3) = -4.250

SECTION (3) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0100	.0339	.0602	.1355	.1506	.1561	.1732	.1958	.2259	.2711	.3210	.3953	.5121
PHI															
20.140	1.4570	1.0450	.4750	-.1420	-.1360	.0780	.1250	.1190	.0300	.0200	.0200	.0540	.0540	.0410	-.0540
40.140			.4820	-.0910	-.1190	.0730	.1190	.1130	.0000	.0000	.0370	.0230	.0230	-.0320	-.0540
55.140			.5200	-.0640	-.0310	.0930	.1490	.1330	.0820	.0820	.0370	.0230	.0230	-.0320	-.0540
70.140			.5120	-.0380	.0600	.1770	.1490	.0820	.0820	.0820	-.1770	.2540	.2540	-.0910	.0290
90.140	1.0450		.4870	-.0140	.0630	.2100	.2620	.1110	.1110	.1110	-.2110	.2210	.2210	-.0940	.0330
120.140			.4480	-.0440	.0770	.2280	.3320	.0200	.0200	.0200	-.2250	.1940	.1940	-.1340	-.0340
142.140			.4460	.0570	.1600	.4610	.4230	.0200	.0200	.0200	-.1330	.0200	.0200	-.0670	-.0420

RELATED PRESSURE DATA - 1A95

AVCS 97-7.7 1A9 02A + S3 + T9 ORBITER FUSELAGE

(RBCB11)

MACH (1) = 1.555 ALPHAT (3) = -4.250

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0672	.1355	.1506	.1981	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000															
X/LB	.5873	.6626	.7580	.7869	.8283	.8848	.9262	.9689	1.0015	1.0392					
PHI															
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000															

-.0921
-.1270

X/LB	.0000	.0075	.0188	.0339	.0672	.1355	.1506	.1981	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000															
X/LB	.5873	.6626	.7580	.7869	.8283	.8848	.9262	.9689	1.0015	1.0392					
PHI															
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000															

MACH (1) = 1.555 ALPHAT (4) = -2.190

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0672	.1355	.1506	.1981	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000															
X/LB	.5873	.6626	.7580	.7869	.8283	.8848	.9262	.9689	1.0015	1.0392					
PHI															
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000															

1.0060

DATE 20 SEP 73 TABULATED PRESSURE DATA - 1A9B (RBCB01)

AMES 97-707 1A9 OCA + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.555 ALPHAT (8) = 6.060

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3210	.3953	.5120
PHI															
000	1.5100	1.2150	.4910	-.1810	-.1710	.1550	.0680	.0260	.0680	-.0910	-.1330	-.1680	.1830	.0570	
20.000			.5390	-.1340	-.1650	.1020	.0460	.0260	.0460	-.0690	-.1090	-.0880	.0210	.0650	
40.000			.6150	-.0840	-.0460	.0770	.0340	.0260	.0340	-.0670	-.1090	-.0880	.0210	.0650	
55.000			.6070	-.0270	.0380	.0890	.0470	.0260	.0470	-.0050	-.1920	-.2560	-.1240	-.0790	
70.000			.5290	.0140	-.0050	.0920	.0470	.0260	.0470	-.0020	-.2650	-.2560	-.2120	-.0950	
90.000			.9940	.4010	-.0620	.1140	.3110	.0260	.3110	-.0770	-.2750	-.2830	-.2230	-.0950	
120.000			.2660	-.0630	.0430	.1530	-.2260	.0260	-.2260	-.2240	-.2930	.0470	-.1840	-.1040	
142.000			.2380	-.0750	.0510	.5810	.7450	.0260	.7450	-.3920	-.2350	-.2110	-.1790	-.1120	
150.000								.3870	.3870	-.3630	-.3110	-.1490	-.1740	-.1250	
162.000						.6950	.9570	.0260	.9570	-.3630	-.3110	-.1490	-.1740	-.1250	
169.000			1.5100	.7090	-.0220	.0570	.6950	.0260	.6950	-.3630	-.3110	-.1490	-.1740	-.1250	
172.000			.5973	.6626	.7380	.7869	.8283	.8243	.9262	.9639	1.1015	1.0392			
180.000			.0260												
PHI															
000			.0450	.0620	-.1040	-.3220	-.0540								
20.000			.2010	.0450	.0620	-.1040	-.3220								
40.000			-.1310	-.1520	-.1050	-.1210	-.1380	-.1650							
70.000			-.1020	-.1020	-.0700	-.1010	-.1750	-.1870							
90.000				.0740	.0260	-.1030	-.1880	-.2170							
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															

MACH (1) = 1.555 ALPHAT (9) = 6.130

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3210	.3953	.5120
PHI															
000	1.5050	1.1940	.4350	-.1060	-.1550	.1630	.0500	.0260	.0500	-.0720	-.1470	-.1910	.2260	.0860	
20.000			.5110	-.1580	-.1580	.0790	.0480	.0260	.0480	-.0830	-.1430	-.1090	.0020	.0910	
40.000			.6090	-.1040	-.0590	.0990	.0360	.0260	.0360	-.0620	-.1090	-.0880	.0210	.0650	
55.000			.6030	-.0280	.0380	.0710	.0470	.0260	.0470	-.0050	-.1920	-.2630	-.1280	-.0910	
70.000			.5420	.0140	-.0120	.0760	.0260	.0260	.0260	-.0020	-.2480	-.2740	-.1710	-.1030	
90.000			.4210	-.0550	.0300	.0920	.3040	.0260	.3040	-.0770	-.2850	-.2870	-.2480	-.1130	
120.000			.2480	-.0750	.0120	.1260	.7450	.0260	.7450	-.3920	-.2350	-.2110	-.1790	-.1120	

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TABLATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 CEA + S3 + T9 ORBITER FUSELAGE

(RBC6:1)

MACH (1) = 1.555 ALPHAT(9) = 8.135

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000															
X/LB	.5873	.6626	.7381	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					

MACH (2) = 2.000 ALPHAT(1) = -8.360

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
40.000															
70.000															
90.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															
X/LB	.6280	.7022	.7782	.8269	.8683	.9248	.9662	.9939	1.0315	1.0692					

MACH (2) = 2.000 ALPHAT(1) = -8.360

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
142.000															
150.000															
162.000															
165.000															
169.000															
172.000															
X/LB	.6280	.7022	.7782	.8269	.8683	.9248	.9662	.9939	1.0315	1.0692					

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TABLATED PRESSURE DATA - IA99

(REORBIT)

AMES 97-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.000 ALPHA(5) = -.160

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0050	.0075	.0100	.0125	.0150	.0175	.0200	.0225	.0250	.0275	.0300	.0325	.0350	.0375	.0400	.0425	.0450	.0475	.0500
PHI																			
20.000	1.4300	.9660	.5890	.1350	.0100	.2610	.1740	.1560	.0410	-.0030	-.0820	-.0230							
40.000																			
60.000																			
80.000																			
100.000																			
120.000																			
140.000																			
160.000																			
180.000																			
X/LB	1.4300	1.0200	.4170	.1850	.2060	.4610	.8800	-.1710	-.1330	-.0590	-.0020	-.0470							

SECTION (2) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0050	.0075	.0100	.0125	.0150	.0175	.0200	.0225	.0250	.0275	.0300	.0325	.0350	.0375	.0400	.0425	.0450	.0475	.0500
PHI																			
20.000	1.3950	1.0060	.6420	.1620	-.0020	.3030	.1850	.1450	.0260	-.0190	-.1040	-.0480							
40.000																			
60.000																			
80.000																			
100.000																			
120.000																			
140.000																			
160.000																			
180.000																			
X/LB	1.3950	1.0060	.6420	.1620	-.0020	.3030	.1850	.1450	.0260	-.0190	-.1040	-.0480							

MACH (2) = 2.000 ALPHA(6) = 1.690

SECTION (3) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0050	.0075	.0100	.0125	.0150	.0175	.0200	.0225	.0250	.0275	.0300	.0325	.0350	.0375	.0400	.0425	.0450	.0475	.0500
PHI																			
20.000	1.3950	1.0060	.6420	.1620	-.0020	.3030	.1850	.1450	.0260	-.0190	-.1040	-.0480							
40.000																			
60.000																			
80.000																			
100.000																			
120.000																			
140.000																			
160.000																			
180.000																			
X/LB	1.3950	1.0060	.6420	.1620	-.0020	.3030	.1850	.1450	.0260	-.0190	-.1040	-.0480							

DATE 20 SEP 73

CALCULATED PRESSURE DATA - 1A9B (RBOB01)

AVES 97-717 1A9 OEA + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.000 ALPHA(6) = 1.890

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP	
X/LB	PHI		
.0000	.0075	.0188	.0339
.0339	.0602	.1355	.1506
.1581	.1732	.1958	.2259
.2711	.3200	.3953	.5120
.6480	.7980	.8410	.8240
.6140	.6110	.6110	.6110
.6110	.6110	.6110	.6110
.8240	.8240	.8240	.8240
1.0392	1.0392	1.0392	1.0392

MACH (2) = 2.000 ALPHA(7) = 3.930

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP	
X/LB	PHI		
.0000	.0075	.0188	.0339
.0339	.0602	.1355	.1506
.1581	.1732	.1958	.2259
.2711	.3200	.3953	.5120
.6480	.7980	.8410	.8240
.6140	.6110	.6110	.6110
.6110	.6110	.6110	.6110
.8240	.8240	.8240	.8240
1.0392	1.0392	1.0392	1.0392

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP	
X/LB	PHI		
.0000	.0075	.0188	.0339
.0339	.0602	.1355	.1506
.1581	.1732	.1958	.2259
.2711	.3200	.3953	.5120
.6480	.7980	.8410	.8240
.6140	.6110	.6110	.6110
.6110	.6110	.6110	.6110
.8240	.8240	.8240	.8240
1.0392	1.0392	1.0392	1.0392

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TABULATED PRESSURE DATA - 1A9B

AMES 97-707 IAG OEA + S3 + T9 ORBITER FUSELAGE

(R80801)

MACH (2) = 2.1000

ALPHAT (7) = 3.930

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CF

X/LB	PHI	X/LB	PHI	X/LB	PHI	X/LB	PHI
.5000	.5075	.5100	.5339	.5602	.5355	.5506	.5181
.5200	.5375	.5400	.5680	.5943	.5700	.5966	.5639
.5400	.5975	.5600	.6380	.6783	.6540	.6896	.6600
.5600	.6575	.5800	.7080	.7483	.7240	.7596	.7300
.5800	.7175	.6000	.7580	.7983	.7740	.8096	.7800
.6000	.7775	.6200	.8080	.8483	.8240	.8596	.8300
.6200	.8375	.6400	.8580	.8983	.8740	.9096	.8800
.6400	.8975	.6600	.9080	.9383	.9140	.9496	.9300
.6600	.9575	.6800	.9580	.9783	.9540	.9896	.9700
.6800	.10175	.7000	.10180	.10183	.10186	.10189	.10192
.7000	.10190	.7200	.10195	.10198	.10201	.10204	.10207
.7200	.10210	.7400	.10215	.10218	.10221	.10224	.10227
.7400	.10230	.7600	.10235	.10238	.10241	.10244	.10247
.7600	.10250	.7800	.10255	.10258	.10261	.10264	.10267
.7800	.10270	.8000	.10275	.10278	.10281	.10284	.10287
.8000	.10290	.8200	.10295	.10298	.10301	.10304	.10307
.8200	.10310	.8400	.10315	.10318	.10321	.10324	.10327
.8400	.10330	.8600	.10335	.10338	.10341	.10344	.10347
.8600	.10350	.8800	.10355	.10358	.10361	.10364	.10367
.8800	.10370	.9000	.10375	.10378	.10381	.10384	.10387
.9000	.10390	.9200	.10395	.10398	.10401	.10404	.10407
.9200	.10410	.9400	.10415	.10418	.10421	.10424	.10427
.9400	.10430	.9600	.10435	.10438	.10441	.10444	.10447
.9600	.10450	.9800	.10455	.10458	.10461	.10464	.10467
.9800	.10470	.10000	.10475	.10478	.10481	.10484	.10487

MACH (2) = 2.1000

ALPHAT (8) = 5.980

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CF

X/LB	PHI	X/LB	PHI	X/LB	PHI	X/LB	PHI
.5000	.5075	.5100	.5339	.5602	.5355	.5506	.5181
.5200	.5375	.5400	.5680	.5943	.5700	.5966	.5639
.5400	.5975	.5600	.6380	.6783	.6540	.6896	.6600
.5600	.6575	.5800	.7080	.7483	.7240	.7596	.7300
.5800	.7175	.6000	.7580	.7983	.7740	.8096	.7800
.6000	.7775	.6200	.8080	.8483	.8240	.8596	.8300
.6200	.8375	.6400	.8580	.8983	.8740	.9096	.8800
.6400	.8975	.6600	.9080	.9383	.9140	.9496	.9300
.6600	.9575	.6800	.9580	.9783	.9540	.9896	.9700
.6800	.10175	.7000	.10180	.10183	.10186	.10189	.10192
.7000	.10190	.7200	.10195	.10198	.10201	.10204	.10207
.7200	.10210	.7400	.10215	.10218	.10221	.10224	.10227
.7400	.10230	.7600	.10235	.10238	.10241	.10244	.10247
.7600	.10250	.7800	.10255	.10258	.10261	.10264	.10267
.7800	.10270	.8000	.10275	.10278	.10281	.10284	.10287
.8000	.10290	.8200	.10295	.10298	.10301	.10304	.10307
.8200	.10310	.8400	.10315	.10318	.10321	.10324	.10327
.8400	.10330	.8600	.10335	.10338	.10341	.10344	.10347
.8600	.10350	.8800	.10355	.10358	.10361	.10364	.10367
.8800	.10370	.9000	.10375	.10378	.10381	.10384	.10387
.9000	.10390	.9200	.10395	.10398	.10401	.10404	.10407
.9200	.10410	.9400	.10415	.10418	.10421	.10424	.10427
.9400	.10430	.9600	.10435	.10438	.10441	.10444	.10447
.9600	.10450	.9800	.10455	.10458	.10461	.10464	.10467
.9800	.10470	.10000	.10475	.10478	.10481	.10484	.10487

TABLATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBC0012)

DATE 20 SEP 73

MACH (1) = 1.555 BETA* (2) = -5.110

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB	PHI	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI	.0000	1.4620	1.1620	.3910	-.1780	-.1990	.0800	.0620	.0620	.0620	.0620	.0620	.0620	.0620	.0620	.0620
20.000	.0000	.5940	-.1070	-.1720	.0130	.0200	.0200	.0200	.0200	.0200	.0200	.0200	.0200	.0200	.0200	.0200
40.000	.0000	.8080	.0740	.1120	-.0540	.0110	.0110	.0110	.0110	.0110	.0110	.0110	.0110	.0110	.0110	.0110
55.000	.0000	.8520	.1820	.2430	.0830	.0510	.0510	.0510	.0510	.0510	.0510	.0510	.0510	.0510	.0510	.0510
70.000	.0000	.7830	.2980	.1840	.1090	.1210	.1210	.1210	.1210	.1210	.1210	.1210	.1210	.1210	.1210	.1210
90.000	.0000	1.1900	.6160	.1320	.1910	.1300	.4460	.4460	.4460	.4460	.4460	.4460	.4460	.4460	.4460	.4460
120.000	.0000	.3560	.0160	.1330	.1470	.5590	.5590	.5590	.5590	.5590	.5590	.5590	.5590	.5590	.5590	.5590
142.000	.0000	.2420	-.0710	.0870	.5230	.8520	.8520	.8520	.8520	.8520	.8520	.8520	.8520	.8520	.8520	.8520
150.000	.0000	.1570	.0000	.0000	.0000	.6850	.6850	.6850	.6850	.6850	.6850	.6850	.6850	.6850	.6850	.6850
162.000	.0000	.1690	.0000	.0000	.0000	.3390	.3390	.3390	.3390	.3390	.3390	.3390	.3390	.3390	.3390	.3390
169.000	.0000	.1720	.0000	.0000	.0000	.5360	.5360	.5360	.5360	.5360	.5360	.5360	.5360	.5360	.5360	.5360
172.000	.0000	1.4620	.6310	.0820	-.0790	.0360	.5100	.8890	.8890	.8890	.8890	.8890	.8890	.8890	.8890	.8890
180.000	.0000	.5870	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392	1.0770	1.1147	1.1524	1.1901	1.2278

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB	PHI	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI	.0000	1.4620	1.1620	.3910	-.1780	-.1990	.0800	.0620	.0620	.0620	.0620	.0620	.0620	.0620	.0620	.0620
40.000	.0000	.5940	-.1070	-.1720	.0130	.0200	.0200	.0200	.0200	.0200	.0200	.0200	.0200	.0200	.0200	.0200
70.000	.0000	.8080	.0740	.1120	-.0540	.0110	.0110	.0110	.0110	.0110	.0110	.0110	.0110	.0110	.0110	.0110
90.000	.0000	.8520	.1820	.2430	.0830	.0510	.0510	.0510	.0510	.0510	.0510	.0510	.0510	.0510	.0510	.0510
105.000	.0000	.7830	.2980	.1840	.1090	.1210	.1210	.1210	.1210	.1210	.1210	.1210	.1210	.1210	.1210	.1210
110.000	.0000	1.1900	.6160	.1320	.1910	.1300	.4460	.4460	.4460	.4460	.4460	.4460	.4460	.4460	.4460	.4460
120.000	.0000	.3560	.0160	.1330	.1470	.5590	.5590	.5590	.5590	.5590	.5590	.5590	.5590	.5590	.5590	.5590
125.000	.0000	.2420	-.0710	.0870	.5230	.8520	.8520	.8520	.8520	.8520	.8520	.8520	.8520	.8520	.8520	.8520
130.000	.0000	.1570	.0000	.0000	.0000	.6850	.6850	.6850	.6850	.6850	.6850	.6850	.6850	.6850	.6850	.6850
135.000	.0000	.1690	.0000	.0000	.0000	.3390	.3390	.3390	.3390	.3390	.3390	.3390	.3390	.3390	.3390	.3390
140.000	.0000	.1720	.0000	.0000	.0000	.5360	.5360	.5360	.5360	.5360	.5360	.5360	.5360	.5360	.5360	.5360
145.000	.0000	1.4620	.6310	.0820	-.0790	.0360	.5100	.8890	.8890	.8890	.8890	.8890	.8890	.8890	.8890	.8890
150.000	.0000	.5870	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392	1.0770	1.1147	1.1524	1.1901	1.2278

MACH (1) = 1.555 BETA* (3) = -3.050

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB	PHI	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI	.0000	1.4620	1.2040	.5090	-.1830	-.2030	.1330	.0310	.0310	.0310	.0310	.0310	.0310	.0310	.0310	.0310
20.000	.0000	.6210	-.0530	-.1650	.0310	.0220	.0220	.0220	.0220	.0220	.0220	.0220	.0220	.0220	.0220	.0220
40.000	.0000	.7560	.0430	.0870	-.0170	.0080	.0080	.0080	.0080	.0080	.0080	.0080	.0080	.0080	.0080	.0080
55.000	.0000	.7630	.1100	.1910	.0710	.0330	.0330	.0330	.0330	.0330	.0330	.0330	.0330	.0330	.0330	.0330
70.000	.0000	.6890	.1690	.1170	.1010	.1180	.1180	.1180	.1180	.1180	.1180	.1180	.1180	.1180	.1180	.1180
90.000	.0000	1.0950	.5110	.0420	.1390	.1230	.4460	.4460	.4460	.4460	.4460	.4460	.4460	.4460	.4460	.4460
120.000	.0000	.3040	-.0270	.1050	.1440	.5590	.5590	.5590	.5590	.5590	.5590	.5590	.5590	.5590	.5590	.5590
142.000	.0000	.2420	-.0710	.0870	.5230	.8520	.8520	.8520	.8520	.8520	.8520	.8520	.8520	.8520	.8520	.8520
150.000	.0000	.1570	.0000	.0000	.0000	.6850	.6850	.6850	.6850	.6850	.6850	.6850	.6850	.6850	.6850	.6850
162.000	.0000	.1690	.0000	.0000	.0000	.3390	.3390	.3390	.3390	.3390	.3390	.3390	.3390	.3390	.3390	.3390
169.000	.0000	.1720	.0000	.0000	.0000	.5360	.5360	.5360	.5360	.5360	.5360	.5360	.5360	.5360	.5360	.5360
172.000	.0000	1.4620	.6310	.0820	-.0790	.0360	.5100	.8890	.8890	.8890	.8890	.8890	.8890	.8890	.8890	.8890
180.000	.0000	.5870	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392	1.0770	1.1147	1.1524	1.1901	1.2278

(REVERSE)

UNCALCULATED PRESSURE DATA - IAPD

DATE 20 SEP 73

AMES 97-707 IAP OEA + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.555

DETAI (3) = -3.050

DEPENDENT VARIABLE CP

SECTION (1) ORBITER FUSELAGE	X/LB	PHI	PHI
	.0000	.0075	.0188
	.0339	.0652	.1355
	.1581	.1732	.1958
	.2259	.2711	.3200
	.3953	.5120	
	-.1440	-.2260	-.2950
	.0200	.0200	-.2080
	-.1990		
	.5370		
	.4650		
	.3560		
	.5570		
	-.3870	-.3080	-.2070
	-.1850	-.1740	
	1.0015	1.0092	
	-.0250		
	-.0270		

SECTION (1) ORBITER FUSELAGE	X/LB	PHI	PHI
	.0340	.1730	.1880
	.2930	-.0690	-.2930
	-.1280		
	.6310	-.2210	-.1140
	-.1230	-.1400	
	-.1820	-.1500	-.1820
	-.2080	-.0510	-.1500
	-.1650	-.2080	
	-.0980	-.0520	-.1650
	-.1540		
	-.1690		
	-.0660		
	-.0060		
	-.1350		
	-.0720	.0370	.0950
	.0820	-.1210	-.0200
	-.0060	-.0200	-.0060
	-.1170	.0340	.0240
	-.1350		
	-.0560		
	-.0090	.1310	
	-.1310		
	-.0380		

MACH (1) = 1.555

DETAI (4) = 5.110

DEPENDENT VARIABLE CF

SECTION (1) ORBITER FUSELAGE	X/LB	PHI	PHI
	.0000	.0075	.0188
	.0339	.0652	.1355
	.1581	.1732	.1958
	.2259	.2711	.3200
	.3953	.5120	
	-.1440	-.2260	-.2950
	.0200	.0200	-.2080
	-.1990		
	.5370		
	.4650		
	.3560		
	.5570		
	-.3870	-.3080	-.2070
	-.1850	-.1740	
	1.0015	1.0092	
	-.0250		
	-.0270		
	.0620		
	.0650		
	-.0220	-.1720	-.0470
	.0280		
	-.0180		
	.0670	-.2540	-.3290
	-.1940	-.1940	-.0950
	-.0680	-.0160	-.2220
	-.0680	-.0370	-.2610
	-.2450	-.1120	-.3150
	-.2450	-.3110	-.2450
	-.1180		
	-.3090	-.3260	-.3160
	-.2120	-.2120	-.1240
	.0710		
	.3020		
	-.4220	-.3260	-.2000
	-.1970	-.1610	
	.3440		
	.7330		

DATE 20 SEP 73

TABLATED PRESSURE DATA - 1A98

PAGE 20

AVES 97-707 1A9 OCA + S3 + T9 ORBITER FUSELAGE

(R80012)

MACH (1) = 1.555

BETAT (4) = 5.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5000	.5075	.5188	.5339	.5602	.6355	.6506	.6581	.6732	.6958	.7259	.7711	.8200	.8953	.9120
PHI	180.000	1.2765	.6720	.1020	-.0900	.0330	.4810	.5290			-.3910	-.2910	-.2820	-.2490	-.2190
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI	.0000	.0410													
40.000	.0270	.1550	.1260	.0510	-.1780	-.1130	-.0420	-.0780	-.0930						
70.000	-.1320	-.0750	-.1370	-.0780	-.0860	-.1190	-.1550	-.1590							
90.000	-.0720	-.0240	.0380	-.0420	-.0810	-.1580	-.1590								
105.000		.1110	.0200	-.0920	-.1740	-.1780									
110.000															
120.000		-.0350	.0800	.0250	-.1460	-.1490	-.1370	-.1320							
135.000		.4490	.2080	-.1250	-.0840	-.0770									
150.000		-.1240	.0760	.2960	-.0290	-.0400	-.0590								
165.000		-.0310	.2990	.3500	.0860	.0160	-.1740								
180.000		-.1070	-.0800	.1360											

MACH (1) = 1.555 BETAT (5) = 7.140

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.5075	.5188	.5339	.5602	.6355	.6506	.6581	.6732	.6958	.7259	.7711	.8200	.8953	.9120
PHI	.000	1.3110	1.1940	.4820	-.1930	-.2220	.0450	.0720	.0210						
20.000		.4070	-.1940	-.2270	.0370										
40.000		.4010	-.1940	-.2080	.0100										
55.000		.3480	-.1740	-.2120	-.0140										
70.000		.2830	-.1670	-.2370	-.0760										
90.000		.6970	.1340	-.2390	-.2070	.0790									
120.000		.0650	-.2090	-.1930	.1970										
142.000		.0790	-.1640	-.0570	.3310										
150.000															
162.000															
165.000															
169.000															
172.000															
180.000		1.3110	.6490	.0840	-.0820	.0450	.4410	.7460	.4910						
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI	.000	.1530													
40.000	.1900	.4270	.1910	-.0180	-.1530	-.0950	-.0590	-.0340	-.1170						

AMES 97-797 IA9 O2A + S3 + T9 ORBITER FUSELAGE

(RSCB2)

MACH (1) = 1.555 BETAT (6) = 9.190

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .5873 .6626 .7382 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI

165.000 -.0570 .1980 .3230 -.5420 -.0840 -.2360
180.000 -.1160 -.0730 .0640

MACH (2) = 2.000 BETAT (1) = -8.320

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .5075 .0188 .0339 .0672 .1355 .1556 .1581 .1732 .1958 .2259 .2711 .3210 .3953 .5120

PHI

.000 1.2440 1.0440 .6950 .1649 .0240 .0840 .0210
20.000 .7570 .3270 .1580 .0460 .0220 -.0570 -.1420 -.0250
40.000 .8180 .3540 .4150 .0790 .0220 -.0580 .1820 .1390
55.000 .7930 .4220 .2490 .1610 .0840
70.000 .7520 .4220 .2680 .1880
90.000 .6410 .2450 .3870 .2720 .2050
120.000 .4820 .1500 .2390 .4910 .1240
142.000 .3820 .0690 .1330 .2830 .6210
150.000 .7440
157.000 .5950
162.000 .4370
165.000 .6510
169.000 .5890
172.000 .5890
180.000 1.2440 .7170 .2120 .0330 .0590 .3970 .6510
X/LB .5873 .6626 .7380 .7868 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI

.000 -.0370
40.000 .1180 .1390 .3510 .2580 .1920 -.0380 -.0750
70.000 -.0390 -.0390 -.0730 -.1030 -.0780 -.0420 -.0670
90.000 -.0170 -.0370 -.0470 .0590 .0440 .0030 -.0540
105.000 .1410 .1830 .0240 .0240 -.0650
110.000
120.000 -.1100 -.1180 .6220 .2390 .0210 -.0300 -.0570 .1540
135.000 .0430 .0680 -.1690 -.1940 -.1900 .0630
150.000 -.0680 -.0750 .0160 -.0670 -.1840 -.1540
165.000 -.0510 .0240 .0630 .0280 .0460 .0760
180.000 -.1850 -.1410 -.1020

(RECORD)

ADJUSTED PRESSURE DATA - 1A95
A-15 97-7-7 1A9 OZA + S3 + T9 ORBITER FUSELAGE

DATE: SEP 73

MACH (2) = 2.000
DETAT (2) = -6.270

DEPENDENT VARIABLE CP

SECTION (1) ORBITER FUSELAGE

X/LB	.0000	.0075	.0150	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3270	.3953	.5120
PHI															
20.000	1.2650	1.0240	.7040	.1540	-.0040	.1740		.0640		.0210	-.0300	-.0680	-.0470	-.0380	
40.000			.7350	.2890	.1090	.1090		.0570		-.0180	-.0470	-.0240	.0440	.0950	
60.000			.7770	.3180	.3560	.0950		.0110		-.0470	-.0580	-.0240	.0440	.0950	
80.000			.7580	.3690	.4280	.2150		.0520		.1190	-.0350	-.1050	-.0550	.1270	
100.000			.7100	.3590	.3440	.2350		.1670		.1720	-.0630	-.1160	-.0330	-.0220	
120.000		1.0770	.6110	.1870	.3030	.2440		.1840		.0540	-.0930	.1370	-.1460	-.1920	
140.000			.4710	.1250	.1760	.2280		.4740		.0950					
160.000			.3820	.0630	.1130	.3250		.6180							
180.000						.7580		.5850							
200.000						.4450		.6210							
220.000						.7350									
240.000	1.2650	.7610	.2370	.0450	.0650	.4290		.6210							
260.000	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					

PHI

X/LB

MACH (2) = 2.000
DETAT (3) = -4.210

DEPENDENT VARIABLE CP

SECTION (1) ORBITER FUSELAGE

X/LB	.0000	.0075	.0150	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3270	.3953	.5120
PHI															
20.000	1.2650	1.0460	.7040	.1920	.0120	.1870		.1030		.0450	-.0240	-.0550	-.0930	-.0490	
40.000			.7230	.2890	.0960	.1530		.0580		.0320	-.0260	-.0210	.0560	.0670	
60.000			.7310	.2880	.3020	.1190		.0350		-.0470	-.0260	-.0210	.0560	.0670	
80.000			.6920	.3280	.3370	.1680		.1580		.0280	-.0600	-.1210	-.0790	.0220	
100.000			.6370	.2630	.2760	.2090		.1340		.0960	-.0800	-.1320	-.1020	-.0330	
120.000		1.0180	.5420	.1310	.2110	.2190		.1800		.0450	-.1060	-.1370	-.1470	-.0850	
140.000			.4280	.0890	.1330	.2130		.4590							

AMES 97-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE

(RD-0112)

MACH (2) = 2.000 BETAT (5) = 6.060

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000	-.1120	-.1340	-.1270	-.1090	-.1090	-.1280	-.1280	-.1320		
90.000	-.0780	-.1020	-.0920	-.0850	-.0850	-.1240	-.1240	-.1310		
105.000		-.0200	-.0500	-.0890	-.0890	-.1250	-.1250	-.1430		
110.000						.0190				
120.000	-.0720	-.0710	.1350	-.0050	-.1350	-.1320	-.1320	-.1090	-.0630	
135.000			.4260	.3530	-.1180	-.0990	-.0990	-.0790		
150.000	-.0920	-.0730	.0840	.1990	-.1010	-.0740	-.0740	-.0710		
165.000	-.1220		.0720	.3660	-.0760	-.0410	-.0410	-.0930		
180.000	-.1590	-.1520	-.0880							

MACH (2) = 2.000 BETAT (6) = 8.120

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2620	1.0410	.6430	.0990	-.0470	.1050			.0900		-.0500	-.0360	-.0640	-.0300	-.0140
20.000			.5760	.0610	-.1020	.1570			.0400		-.0420				
40.000			.4760	.0630	-.1130	.1290			.0130		-.1080	-.1370	-.1600	-.1500	-.0260
55.000			.3720	.0550	-.0990	-.0480			.0020		-.0500				
70.000			.2670	-.0380	-.1110	.0050			.0500		.0450	-.1210	-.1800	-.1900	-.1280
90.000	.6740		.1870	-.1160	-.0950	-.0340			.1410		.0550	-.1310	-.1800	-.1920	-.1190
120.000			.1540	-.0940	-.0860	-.0300			.0550		-.0020	-.0600	-.1730	-.1530	-.1460
150.000			.1780	-.0530	-.0220	.1230			.2620		-.2250	-.2450	.0020	-.1110	-.1420
157.000						.4580									
162.000									.3610						
165.000									.4250						
169.000															
172.000															
180.000	1.2680	.7420	.2070	.0140	.0490	.3590			.5670		-.2770	-.2350	-.1910	-.1310	-.1460
180.000						.5560									
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					

MACH (2) = 2.000 BETAT (6) = 8.120

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2620	1.0410	.6430	.0990	-.0470	.1050			.0900		-.0500	-.0360	-.0640	-.0300	-.0140
20.000			.5760	.0610	-.1020	.1570			.0400		-.0420				
40.000			.4760	.0630	-.1130	.1290			.0130		-.1080	-.1370	-.1600	-.1500	-.0260
55.000			.3720	.0550	-.0990	-.0480			.0020		-.0500				
70.000			.2670	-.0380	-.1110	.0050			.0500		.0450	-.1210	-.1800	-.1900	-.1280
90.000	.6740		.1870	-.1160	-.0950	-.0340			.1410		.0550	-.1310	-.1800	-.1920	-.1190
120.000			.1540	-.0940	-.0860	-.0300			.0550		-.0020	-.0600	-.1730	-.1530	-.1460
150.000			.1780	-.0530	-.0220	.1230			.2620		-.2250	-.2450	.0020	-.1110	-.1420
157.000						.4580									
162.000									.3610						
165.000									.4250						
169.000															
172.000															
180.000	1.2680	.7420	.2070	.0140	.0490	.3590			.5670		-.2770	-.2350	-.1910	-.1310	-.1460
180.000						.5560									
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9B (RES0012)
MES 97-757 IA9 O2A + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.1100 REYNOLDS (6) = 8.120

SECTION (1) ORBITER FUSELAGE DEFENDENT VARIABLE CP
X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI
165.0000 -.1670 .04200 .1080 -.0490 -.05500 -.1360
180.0000 -.1910 -.1730 -.1270

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA98

(R8000-3)

AMES 97-707 IA9 Q2A + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.555 BETAT (5) = 7.115

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.10015	1.0392
PHI										
70.000	-.0410	-.0160	-.0940	-.0940	-.1130	-.1470	-.1470	-.1800		
90.000	-.0060	-.0490	-.0910	-.0910	-.1210	-.1800	-.1800	-.1810		
105.000				.0600	-.0310	-.1200	-.1960	-.2070		
120.000				.0310	-.0040	.0020	-.2070	-.1770	-.0640	
135.000				.0610	.0310	-.1610	-.1480	-.1270	-.1640	
150.000				-.0010	.0040	.2710	-.0990	-.0590		
165.000				.0220	.0020	.0920	.0660	-.0050		
180.000				-.0070	-.0630	.0340				

MACH (1) = 1.555 BETAT (6) = 9.140

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.1175	.0188	.0039	.0602	.0355	.0506	.0581	.0732	.0958	.0259	.0211	.0000	.0953	.0120
PHI															
0.000	1.2940	1.0780	.5400	-.0760	-.0670	-.0520			-.1190	-.0570	-.0740	-.0830	-.0710	-.0390	
20.000			.4280	-.1500	-.1430	-.0660			-.1250	-.1210					
40.000			.0300	-.1000	-.1090	-.0890			-.1400	-.1560	-.1740	-.0040	-.0030	-.0260	
55.000			.0640	-.0610	-.2280	-.0610			-.0670	-.0670					
70.000			.1650	-.2110	-.2450	.0920			.0990	-.0360	-.2460	-.2880	-.1670	-.0340	
90.000		.6990	.0930	-.2560	-.2020	.0110			.1700	-.0790	-.0710	-.0080	-.0460	-.0270	
120.000			.0520	-.2110	-.1650	.0930			.0540	-.163	-.0080	-.0800	-.0610	-.0370	
142.000			.0011	-.1490	-.0470	.2700			.2660	-.0010	-.0020	.0000	-.1400	-.1010	
157.000								.5140							
162.000									.2640						
165.000										-.0450	-.0370	-.2340	-.1700	-.1570	
169.000									.3320						
172.000							.7210								
180.000	1.2840	.7090	.0320	-.0460	.0880	.4380			.4950						

MACH (1) = 1.555 BETAT (6) = 9.140

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.10015	1.0392
PHI										
0.000										
40.000	.0000			-.0460	-.1040	-.1490	-.1420			
70.000	-.1110	-.1490	-.1760	-.1320	-.1330	-.1430	-.1740			
90.000	-.0370	-.1110	-.0490	-.0310	-.0540	-.1790	-.1770			
105.000			.0590	-.0810	-.1560	-.2030	-.1990			
120.000								-.0990		
135.000	-.0350	-.0550	.2110	-.0650	-.2250	-.2080	-.1660			
150.000			.0350	.3340	-.1910	-.1690	-.1410			
150.000	-.0690	-.0780	.0660	.0890	-.1650	-.1280	-.2090			

DATE 20 SEP 73

TABLATED PRESSURE DATA - 1A98

(R62003)

AVES 97-707 1A9 C2A + S3 + T9 QTD: TER FUSELAGE

MACH (2) = 2.000 BETAT (2) = -6.250

SECTION (1) ORBITER FUSELAGE

X/LB	0.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
0.000	1.2840	.9750	.6410	.1550	.0339	.1760			.0660		.0350	-.0255	-.0770	-.1780	-.3370
20.000			.6750	.2720	.1330	.1580			.0670		-.0000	-.0170	-.0620	-.1630	-.3200
40.000			.7230	.2720	.3610	.1230			.0440		.0700				
55.000			.7230	.3260	.4400	.2400			.1520		.1330	-.0240	.0000	-.0100	-.0290
70.000			.6950	.2950	.3590	.2620			.1910		.1920	-.0470	-.0180	-.0190	-.0110
90.000			1.0910	.6170	.1810	.2270	.2750		.2180		.0000	-.0770	-.1240	-.1600	-.1300
120.000			.5110	.1470	.1800	.2660			.0000	.1160					
142.000			.4280	.0930	.1330	.3190			.6770		-.0880	-.0940	.0000	-.0100	-.0100
150.000							.8310								
157.000									.6330		-.0300	-.0540	-.0820	-.1100	-.1100
162.000									.4970						
165.000						.7760									
169.000						.0950	.3750								
172.000			1.2940	.8230	.2810	.0730			.6070		-.0120	-.0100	.0390	-.0200	-.0210
180.000			.5870	.6626	.7380	.7869	.8223	.8228	.9262	.9639	1.0015	1.0392			

MACH (2) = 2.000 BETAT (3) = -4.200

SECTION (1) ORBITER FUSELAGE

X/LB	0.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
0.000	1.3180	.9820	.6240	.1540	.0550	.1980			.0950		.0660	-.0150	-.0540	-.1100	-.1460
20.000			.6420	.2470	.1190	.1730			.0750		-.0170	-.0310	-.0270	.0690	.0620
40.000			.6750	.2470	.3040	.1650			.0660		.0500				
55.000			.6540	.2850	.3610	.2200			.1390		.1290	-.0470	-.0160	-.0880	-.1000
70.000			.6190	.1980	.2720	.2380			.1680		.1690	-.0680	-.0150	-.0190	-.0280
90.000			1.0360	.5450	.1210	.1510	.2500		.1970		.0660	-.0930	-.0390	-.0320	-.0920
120.000			.4630	.0960	.1270	.2470			.5010						

AVES 97-7U7 IA9 O2A + S3 + T9 ORBITER FUSELAGE (REBUS)

MACH (2) = 2.500

BETAT (3) = -4.200

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0400	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
FHI															
142.000									.0540						
150.000									.6580						
157.000															
162.000							.7880								
165.000															
169.000															
172.000															
180.000							.6630								
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					

FHI

.0000															
.0600															
.1600															
.3600															
.5600															
.7600															
.9600															
1.1600															
1.3600															
1.5600															
1.7600															
1.9600															
2.1600															
2.3600															
2.5600															
2.7600															
2.9600															
3.1600															
3.3600															
3.5600															
3.7600															
3.9600															

MACH (2) = 2.000 BETAT (4) = 3.970

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
FHI															
.0000															
.1000															
.2000															
.3000															
.4000															
.5000															
.6000															
.7000															
.8000															
.9000															
1.0000															
1.1000															
1.2000															
1.3000															
1.4000															
1.5000															
1.6000															
1.7000															
1.8000															
1.9000															
2.0000															

.6360

DATE 20 SEP 73 TABULATED PRESSURE DATA - IAB9

AVES 97-707 IAG OZA + S3 + T9 ORBITER FUSELAGE

(REV:08:13)

MACH (2) = 2.1000 BETAT (5) = 6.0300

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP
 X/LB .5673 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI									
70.000	-.0980	-.1210	-.1230	-.0900	-.0960	-.1280	-.1230		
90.000	-.0730	-.0970	-.0540	-.0870	-.0680	-.1100	-.1250		
105.000			-.0050	-.0480	-.0680	-.1110	-.1380		
110.000							-.0240		
120.000	-.0610	-.0640	.1270	.0010	-.1380	-.1420	-.1190		-.0590
135.000			.4870	.3610	-.1390	-.1050	-.0660		
150.000	-.0990	-.0690	.1110	.1800	-.1250	-.0350	-.0850		
165.000	-.1230		.0700	.3420	-.0570	-.0010	-.0960		
180.000	-.1400	-.1630	-.0380						

MACH (2) = 2.1000 BETAT (6) = 8.0800

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP
 X/LB .0000 .0075 .0188 .0339 .0602 .1355 .1506 .1581 .1792 .1958 .2259 .2711 .3200 .3953 .5120

PHI														
0.000	1.2790	.9810	.6239	.1250	.0400	.1210	.0330	.0360	-.0570	-.0760	-.0410	-.0150		
20.000		.5470	.0960	-.0450	.1340		.0360	.0360	-.0210	-.1570	-.1650	-.0380		
40.000		.4570	.0970	-.0740	.0890		.0590	.0590	-.0910	-.1120	-.1570	-.1650	-.0380	
55.000		.3650	.0820	-.0590	-.0140		.0370	.0370	-.0240	-.1100	-.1730	-.1840	-.1190	
70.000		.2720	-.0540	-.0820	.0050		.0880	.0660	.0660	-.1100	-.1730	-.1820	-.1180	
90.000	.6790	.2000	-.1070	-.0800	-.0230		.1610	.0730	.0730	-.1220	-.1730	-.1820	-.1180	
120.000		.1850	-.0750	-.0720	-.0160		.0520	-.0630	-.0630	-.1450	-.1650	-.1360	-.1370	
142.000		.2210	-.0220	.0420	.1290		.2880	-.2190	-.2190	-.2370	.0000	-.0980	-.1180	
150.000						.5010								
157.000							.4150			-.2630	-.2230	-.1970	-.1280	-.1310
162.000														
165.000							.4730							
169.000														
172.000						.6270								
180.000	1.2799	.6040	.2540	.0570	.0820	.4160	.6290			-.2130	-.1750	-.2640	-.2410	-.1470

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP
 X/LB .5673 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI														
0.000	-.0360													-.0910
40.000	-.0500	.0290	-.0290	-.0710	-.0990	-.1240								-.0960
70.000		-.1040	-.1290	-.0920	-.0890	-.0680								
90.000		-.0780	-.0990	-.0470	-.0820	-.0810	-.0950							
105.000			.0050	-.0490	-.0810	-.1190	-.0910							.0690
110.000														
120.000	-.0770	-.0640	.1490	-.0260	-.1450	-.1210	-.0680							-.0090
135.000			.4610	.2400	-.0990	-.0810	-.0750							
150.000	-.1360	-.1480	-.0630	-.0680	-.1520	-.1000	-.1710							

TABLATED PRESSURE DATA - 1A9E

AMES 97-707 1A9 O2A + S3 + 19 060: 100 FUSELAGE

MACH (2) = 2.0500 SETA7 (5) = 8.5800

SECTION / 1) ORBITER FUSELAGE

DEPENDENT VARIABLE CF

X/LB	.5873	.6626	.7387	.7869	.8283	.8848	.9262	.9639	1.0019	1.1392
PMI										
165.0000		-.1560		-.0173	.1280	-.0540	-.0700	-.1500		
180.0000		-.1850		-.1750	-.1210					

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DATE 24 SEP 73

TABULATED PRESSURE DATA - 1A9B

(R00014)

AMES 97-707 1A9 O2A + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.555 BETAT (2) = -5.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	0.0000	0.0075	0.0188	0.0339	0.0602	0.1355	0.1506	0.1581	0.1732	0.1958	0.2259	0.2711	0.3200	0.3953	0.5120
PHI	1.3210	1.1530	0.5720	-0.1370	-0.1710	0.0880			0.0280		-0.0450	-0.1220	-0.1270	-0.0000	0.0000
20.0000	0.6860	0.0040	-0.0940	0.1430					-0.0170		0.0420	-0.0610	0.0400	-0.0000	0.0000
40.0000	0.7810	0.0930	0.1690	0.0200					0.0420		0.0910	-0.1130	-0.1570	-0.0670	-0.1340
55.0000	0.7510	0.1740	0.2770	0.1330					0.0930		0.0660	-0.1140	-0.1680	-0.1030	-0.1570
70.0000	0.6830	0.2270	0.2530	0.1630					0.2790		-0.0170	-0.2120	-0.0960	-0.1670	-0.1140
90.0000	0.5770	0.1850	0.1570	0.2690	0.1830				0.4290		-0.1650				
120.0000	0.4390	0.1040	0.2290	0.2260					0.6200		-0.1670	-0.2080	0.0000	-0.0000	-0.0000
142.0000	0.3550	0.0040	0.1790	0.6240		0.8930			0.5440		-0.2910	-0.1520	-0.1940	-0.1460	-0.1800
150.0000									0.4110						
162.0000						0.9460			0.6270						
165.0000															
169.0000															
172.0000	1.3210	0.7650	0.2000	0.0140	0.1120	0.5980									
180.0000	0.5873	0.6626	0.7380	0.7869	0.8283	0.8848	0.9262	0.9639	1.0015	1.0392					

MACH (1) = 1.555 BETAT (3) = -3.040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	0.0000	0.0075	0.0188	0.0339	0.0602	0.1355	0.1506	0.1581	0.1732	0.1958	0.2259	0.2711	0.3200	0.3953	0.5120
PHI	1.3210	1.1530	0.5720	-0.1370	-0.1710	0.0880			0.0280		-0.0450	-0.1220	-0.1270	-0.0000	0.0000
20.0000	0.6860	0.0040	-0.0940	0.1430					-0.0170		0.0420	-0.0610	0.0400	-0.0000	0.0000
40.0000	0.7810	0.0930	0.1690	0.0200					0.0420		0.0910	-0.1130	-0.1570	-0.0670	-0.1340
55.0000	0.7510	0.1740	0.2770	0.1330					0.0930		0.0660	-0.1140	-0.1680	-0.1030	-0.1570
70.0000	0.6830	0.2270	0.2530	0.1630					0.2790		-0.0170	-0.2120	-0.0960	-0.1670	-0.1140
90.0000	0.5770	0.1850	0.1570	0.2690	0.1830				0.4290		-0.1650				
120.0000	0.4390	0.1040	0.2290	0.2260					0.6200		-0.1670	-0.2080	0.0000	-0.0000	-0.0000
142.0000	0.3550	0.0040	0.1790	0.6240		0.8930			0.5440		-0.2910	-0.1520	-0.1940	-0.1460	-0.1800
150.0000									0.4110						
162.0000						0.9460			0.6270						
165.0000															
169.0000															
172.0000	1.3210	0.7650	0.2000	0.0140	0.1120	0.5980									
180.0000	0.5873	0.6626	0.7380	0.7869	0.8283	0.8848	0.9262	0.9639	1.0015	1.0392					

(P. 4)

TABLED PRESSURE DATA - 1A9B
AMES 97-717 1A9 OVA + S3 + TO ORBITER FUSELAGE

DATE: 20 SEP 73

BETAT (3) = -3.040

MACH (1) = 1.555

SECTION (1) ORBITER FUSELAGE

X/LB	PHI	DEPENDENT VARIABLE CP
.5000	.5075	.0188
.5500	.5575	.0339
.6000	.6075	.0612
.6500	.6575	.1355
.7000	.7075	.1906
.7500	.7575	.1581
.8000	.8075	.1732
.8500	.8575	.1958
.9000	.9075	.2259
.9500	.9575	.2711
1.0000	1.0075	.3290
1.0500	1.0575	.3953
1.1000	1.1075	.4720
1.1500	1.1575	.5620
1.2000	1.2075	.6360
1.2500	1.2575	.6960
1.3000	1.3075	.7460
1.3500	1.3575	.7869
1.4000	1.4075	.8203
1.4500	1.4575	.8446
1.5000	1.5075	.8600
1.5500	1.5575	.8668
1.6000	1.6075	.8646
1.6500	1.6575	.8526
1.7000	1.7075	.8303
1.7500	1.7575	.7980
1.8000	1.8075	.7560
1.8500	1.8575	.7046
1.9000	1.9075	.6446
1.9500	1.9575	.5760
2.0000	2.0075	.5000

BETAT (4) = 3.080

SECTION (1) ORBITER FUSELAGE

X/LB	PHI	DEPENDENT VARIABLE CP
.5000	.5075	.0188
.5500	.5575	.0339
.6000	.6075	.0612
.6500	.6575	.1355
.7000	.7075	.1906
.7500	.7575	.1581
.8000	.8075	.1732
.8500	.8575	.1958
.9000	.9075	.2259
.9500	.9575	.2711
1.0000	1.0075	.3290
1.0500	1.0575	.3953
1.1000	1.1075	.4720
1.1500	1.1575	.5620
1.2000	1.2075	.6360
1.2500	1.2575	.6960
1.3000	1.3075	.7460
1.3500	1.3575	.7869
1.4000	1.4075	.8203
1.4500	1.4575	.8446
1.5000	1.5075	.8600
1.5500	1.5575	.8668
1.6000	1.6075	.8646
1.6500	1.6575	.8526
1.7000	1.7075	.8303
1.7500	1.7575	.7980
1.8000	1.8075	.7560
1.8500	1.8575	.7046
1.9000	1.9075	.6446
1.9500	1.9575	.5760
2.0000	2.0075	.5000

BETAT (4) = 3.080

SECTION (1) ORBITER FUSELAGE

X/LB	PHI	DEPENDENT VARIABLE CP
.5000	.5075	.0188
.5500	.5575	.0339
.6000	.6075	.0612
.6500	.6575	.1355
.7000	.7075	.1906
.7500	.7575	.1581
.8000	.8075	.1732
.8500	.8575	.1958
.9000	.9075	.2259
.9500	.9575	.2711
1.0000	1.0075	.3290
1.0500	1.0575	.3953
1.1000	1.1075	.4720
1.1500	1.1575	.5620
1.2000	1.2075	.6360
1.2500	1.2575	.6960
1.3000	1.3075	.7460
1.3500	1.3575	.7869
1.4000	1.4075	.8203
1.4500	1.4575	.8446
1.5000	1.5075	.8600
1.5500	1.5575	.8668
1.6000	1.6075	.8646
1.6500	1.6575	.8526
1.7000	1.7075	.8303
1.7500	1.7575	.7980
1.8000	1.8075	.7560
1.8500	1.8575	.7046
1.9000	1.9075	.6446
1.9500	1.9575	.5760
2.0000	2.0075	.5000

BETAT (4) = 3.080

SECTION (1) ORBITER FUSELAGE

X/LB	PHI	DEPENDENT VARIABLE CP
.5000	.5075	.0188
.5500	.5575	.0339
.6000	.6075	.0612
.6500	.6575	.1355
.7000	.7075	.1906
.7500	.7575	.1581
.8000	.8075	.1732
.8500	.8575	.1958
.9000	.9075	.2259
.9500	.9575	.2711
1.0000	1.0075	.3290
1.0500	1.0575	.3953
1.1000	1.1075	.4720
1.1500	1.1575	.5620
1.2000	1.2075	.6360
1.2500	1.2575	.6960
1.3000	1.3075	.7460
1.3500	1.3575	.7869
1.4000	1.4075	.8203
1.4500	1.4575	.8446
1.5000	1.5075	.8600
1.5500	1.5575	.8668
1.6000	1.6075	.8646
1.6500	1.6575	.8526
1.7000	1.7075	.8303
1.7500	1.7575	.7980
1.8000	1.8075	.7560
1.8500	1.8575	.7046
1.9000	1.9075	.6446
1.9500	1.9575	.5760
2.0000	2.0075	.5000

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A95
ANES 97-717 1A9 CEA * S3 * T9 ORBITER FUSELAGE (R90814)

MACH (1) = 1.555 BETAT (5) = 7.180

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP 1.10115 1.10392

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.10115	1.10392
PHI										
70.000	-.0030	-.0070	-.1790	-.0590	-.0920	-.1300	-.1670			
75.000	-.0030	-.0070	-.0280	-.0750	-.1040	-.1560	-.1660			
80.000			.0920	-.0220	-.1050	-.1800	-.1750			
105.000								-.0620		
110.000			.0320	.0010	.2700	-.0210	-.2110	-.1890	-.1630	-.1320
120.000					.5780	.3600	-.1550	-.1460	-.1350	
135.000			.0050	-.0240	.2880	.3080	-.0790	-.0560	-.0980	
150.000			-.0110		.3260	.6040	.0760	.0110	-.1690	
165.000			-.1320	-.0880	.1220					

MACH (1) = 1.555 BETAT (6) = 9.100

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP 1.1732 .1958 .2259 .2711 .3270 .3953 .5120

X/LB	.0020	.0075	.0188	.0339	.0612	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3270	.3953	.5120
PHI															
20.000	1.2930	1.0350	.5010	-.0550	.0190	-.0580			-.1470	-.0770	-.1360	-.1920	-.3120	-.1930	
40.000			.4130	-.1250	-.0470	-.0850			-.1290	-.1290	-.1770	-.1640	-.1680	-.1680	
45.000			.3280	-.1260	-.1640	-.1060			-.1260	-.1490	-.1770	-.1640	-.1680	-.1680	
55.000			.2470	-.1410	-.2010	-.0390			-.0170	-.0570	-.0570	-.0570	-.0570	-.0570	
70.000			.1640	-.2050	-.2250	.0770			.1230	-.1630	-.2460	-.3120	-.1970	-.1970	
90.000		.6570	.1160	-.2510	-.2180	.1240			.1860	-.1480	-.2620	-.2990	-.1240	-.2220	
120.000		.0870	-.1940	-.1460	.2170				.0790	-.1680	-.3230	-.2590	-.2730	-.3470	
142.000			.1330	-.1160	-.0190	.3060			.2260	-.3720	-.3230	-.2470	-.2240	-.1140	
150.000							.5160								
157.000									.2840	-.4370	-.3390	-.2460	-.1960	-.1810	
162.000									.3620						
169.000															
172.000									.5330						
180.000															

MACH (1) = 1.555 BETAT (6) = 9.100

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP 1.10115 1.10392

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.10115	1.10392
PHI										
40.000	-.0380	-.0040	-.0560	-.1200	-.1380	-.1570			-.1310	-.1460
70.000	-.0940	-.1340	-.1530	-.1130	-.1280	-.1160	-.1570		-.1630	-.1630
90.000	-.0200	-.1000	-.0290	-.1140	-.1480	-.1620	-.1530			
109.000			.0350	-.1680	-.1480	-.1740	-.1740			
110.000								-.0590		
120.000	-.0270	-.0560	.1900	-.0690	-.2510	-.1970	-.1780	-.1350		
135.000			.6310	.3390	-.1660	-.1620	-.1480			
150.000	-.0630	-.0640	.1730	.0510	-.1740	-.1340	-.2220			

MACH (2) = 2.000

BETAT (2) = -6.240

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3290	.9560	.6010	.1380	.0440	.1820			.0710	.0730	.0460	-.0130	-.0740	-.0830	-.0330
20.000			.6190	.2420	.1550	.1670			.0610	.0780	-.0010	-.0960	-.0260	.1100	.0780
40.000			.6760	.2410	.3860	.1590			.1880	.0250	.1060	-.0170	-.0880	-.0550	.0250
55.000			.6790	.2850	.4520	.2700			.2190	-.0250	.1820	-.0370	-.0890	-.0750	-.0250
70.000			.6590	.3520	.3520	.2890			.2540	-.0830	.2130	-.0370	-.0890	-.0750	-.0250
90.000			1.1040	.6130	.1720	.3080			.5450	.1100	.1210	-.0640	-.1110	-.1030	-.0830
120.000			.5390	.1660	.1840	.3010			.7290	-.0710	-.0810	-.0020	-.1020	-.1020	-.1010
142.000			.4680	.1220	.1630	.2820		.8860	.6820	-.1300	-.0340	-.0620	-.0620	-.1920	-.0820
150.000									.5440						
157.000							.8970		.7460						
162.000															
169.000															
172.000															
180.000	1.3290	.8660	.3170	.1090	.1250	.3670			.9639	1.0015	1.0392				

MACH (2) = 2.000

BETAT (3) = -4.200

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3290	.9560	.6010	.1380	.0440	.1820			.0710	.0730	.0460	-.0130	-.0740	-.0830	-.0330
20.000			.6190	.2420	.1550	.1670			.0610	.0780	-.0010	-.0960	-.0260	.1100	.0780
40.000			.6760	.2410	.3860	.1590			.1880	.0250	.1060	-.0170	-.0880	-.0550	.0250
55.000			.6790	.2850	.4520	.2700			.2190	-.0250	.1820	-.0370	-.0890	-.0750	-.0250
70.000			.6590	.3520	.3520	.2890			.2540	-.0830	.2130	-.0370	-.0890	-.0750	-.0250
90.000			1.1040	.6130	.1720	.3080			.5450	.1100	.1210	-.0640	-.1110	-.1030	-.0830
120.000			.5390	.1660	.1840	.3010			.7290	-.0710	-.0810	-.0020	-.1020	-.1020	-.1010
142.000			.4680	.1220	.1630	.2820		.8860	.6820	-.1300	-.0340	-.0620	-.0620	-.1920	-.0820
150.000									.5440						
157.000							.8970		.7460						
162.000															
169.000															
172.000															
180.000	1.3290	.8660	.3170	.1090	.1250	.3670			.9639	1.0015	1.0392				

MACH (2) = 2.000

BETAT (3) = -4.200

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3290	.9560	.6010	.1380	.0440	.1820			.0710	.0730	.0460	-.0130	-.0740	-.0830	-.0330
20.000			.6190	.2420	.1550	.1670			.0610	.0780	-.0010	-.0960	-.0260	.1100	.0780
40.000			.6760	.2410	.3860	.1590			.1880	.0250	.1060	-.0170	-.0880	-.0550	.0250
55.000			.6790	.2850	.4520	.2700			.2190	-.0250	.1820	-.0370	-.0890	-.0750	-.0250
70.000			.6590	.3520	.3520	.2890			.2540	-.0830	.2130	-.0370	-.0890	-.0750	-.0250
90.000			1.1040	.6130	.1720	.3080			.5450	.1100	.1210	-.0640	-.1110	-.1030	-.0830
120.000			.5390	.1660	.1840	.3010			.7290	-.0710	-.0810	-.0020	-.1020	-.1020	-.1010
142.000			.4680	.1220	.1630	.2820		.8860	.6820	-.1300	-.0340	-.0620	-.0620	-.1920	-.0820
150.000									.5440						
157.000							.8970		.7460						
162.000															
169.000															
172.000															
180.000	1.3290	.8660	.3170	.1090	.1250	.3670			.9639	1.0015	1.0392				

DATE 20 SEP 73 TABULATED PRESSURE DATA - 1A98

AMES 97-757 1A0 C2A + S3 + T9 ORBITER FUSELAGE (RD75142)

MACH (2) = 2.000 BETAT (5) = 5.990

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000	-0.0890	-0.1120	-0.1170	-0.0880	-0.0850	-0.1040	-0.1180			
90.000	-0.0670	-0.0920	-0.0430	-0.0820	-0.0680	-0.070	-0.1220			
105.000			.0030	-0.0500	-0.0670	-0.1170	-0.1350			
110.000							.0050			
120.000	-0.0600	-0.0560	.0360	.0040	-0.1400	-0.1410	-0.1270			-0.0640
135.000			.0280	.0360	-0.1410	-0.1060	-0.0820			
150.000	-0.0880	-0.0740	.0790	.0150	-0.0880	-0.0720	-0.0860			
165.000	-0.1180	-0.0760	.0130	-0.0490	-0.0130	-0.0980				
180.000	-0.1210	-0.1460	-0.0310							

MACH (2) = 2.000 BETAT (6) = 8.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1055	.1516	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
20.000	1.3190	.9890	.5860	.1140	.0170	.1380			.0470		-0.0100	-0.0020	-0.0790	-0.4410	-0.0050
25.000		.5330	.0890	-0.0540	.1490				.0380		-0.0760	-0.0110	-0.1480	-0.660	-0.0430
40.000		.4530	.0990	-0.0670	.0920				-0.0180		.016				
55.000		.3500	.0810	-0.0520	-0.0430				.0580		.0840	-0.0810	-0.1620	-0.1710	-0.0050
70.000		.2760	-0.0370	-0.0710	.0190				.0950		.0870	-0.080	-0.1610	-0.1680	-0.0110
90.000	.7080	.2140	-0.1020	-0.0780	-0.0190				.1260		.0870	-0.1080	-0.1610	-0.1680	-0.0110
120.000		.2130	-0.0590	-0.0580	-0.0130				.0370		-0.0570	-0.1510	-0.1450	-0.1150	-0.1240
142.000										-0.1840					
150.000		.2610	.0030	.0310	.2220				.3290		-0.1110	-0.2240	.0000	.0000	-0.0000
157.000						.6070									
162.000									.4440						
165.000															
169.000									.5190						
172.000						.7320									
180.000	1.3190	.8670	.2980	.0860	.1200	.4250			.6920						

MACH (2) = 2.000 BETAT (6) = 8.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
40.000	-0.0380									-0.1000
40.000	-0.0540	.0130		-0.0340	-0.0900	-0.1220	-0.1300			-0.1000
70.000		-0.0950	-0.1150	-0.1230	-0.0910	-0.0690	-0.1110	-0.0750		
90.000		-0.0750	-0.0920	-0.0410	-0.0740	-0.0860	-0.1240	-0.1310		
105.000			.0000	-0.0500	-0.0660	-0.1490	-0.1390			
110.000										.0680
120.000	-0.0780	-0.0670	.0540	-0.0490	-0.1580	-0.1450	-0.1180			-0.0280
120.000		.4970	.2640	-0.0750	-0.0970	-0.0970	-0.0970			
135.000										
150.000	-0.1250	-0.1590	-0.0780	-0.0210	-0.1170	-0.1180	-0.1470			

(R030142)

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9B
AMCS 97-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE

WACH (2) = 2.1000 BETAT (6) = 8.0300

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/LB .3673 .6626 .7390 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI
165.020 -.1450 -.0320 .30 -.0110 -.0910 -.1520
165.000 -.1780 -.1735 -.0A ?

DATE 20 SEP 73

TABULATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 OCA + S3 + T9 ORBITER FUSELAGE

(RBD005) (24 MAY 72)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = 0.0000 INCHES
 BREF = 39.8490 INCHES ZMRP = 0.0000 INCHES
 SCALE = 0.0000 SCALE

PACH (1) = 1.555 BETAT (1) = -7.100

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	1.440	1.475	1.510	1.545	1.580	1.615	1.650	1.685	1.720	1.755	1.790	1.825	1.860	1.895	1.930	1.965	2.000
F-1	1.3990	1.0390	.9270	-.0840	-.5490	.0010	-.0360	-.1180	-.1080	-.0750	-.1090	-.1080	-.1080	-.1080	-.1080	-.1080	-.1080
20.000	.627	.624	.624	.624	.624	.624	.624	.624	.624	.624	.624	.624	.624	.624	.624	.624	.624
40.000	.7630	.7630	.7630	.7630	.7630	.7630	.7630	.7630	.7630	.7630	.7630	.7630	.7630	.7630	.7630	.7630	.7630
55.000	.7990	.7990	.7990	.7990	.7990	.7990	.7990	.7990	.7990	.7990	.7990	.7990	.7990	.7990	.7990	.7990	.7990
70.000	.7620	.7620	.7620	.7620	.7620	.7620	.7620	.7620	.7620	.7620	.7620	.7620	.7620	.7620	.7620	.7620	.7620
90.000	1.1550	.6630	.2420	.3610	.2490	.3370	.5090	.3370	.5090	.3370	.5090	.3370	.5090	.3370	.5090	.3370	.5090
120.000	.5240	.1730	.3150	.2840	.6650	.6650	.6650	.6650	.6650	.6650	.6650	.6650	.6650	.6650	.6650	.6650	.6650
142.000	.4190	.0580	.2480	.6800	.9390	.9390	.9390	.9390	.9390	.9390	.9390	.9390	.9390	.9390	.9390	.9390	.9390
150.000																	
157.000																	
162.000																	
165.000																	
169.000																	
172.000																	
180.000	1.3290	.8040	.2430	.5450	.1510	.6070	1.0180	.6070	1.0180	.6070	1.0180	.6070	1.0180	.6070	1.0180	.6070	1.0180
X/LB	.5873	.6626	.7380	.7969	.8283	.8843	.9262	.9639	1.0015	1.0392	1.0750	1.1120	1.1490	1.1860	1.2230	1.2600	1.2970

F-1

40.000	-.0850	.3790	.2520	.2210	-.1040	-.2570	-.0710	-.0710	-.0710	-.0710	-.0710	-.0710	-.0710	-.0710	-.0710	-.0710	-.0710
70.000	-.1130	-.0910	-.1520	-.0240	-.0180	-.0480	-.0710	-.0710	-.0710	-.0710	-.0710	-.0710	-.0710	-.0710	-.0710	-.0710	-.0710
90.000	-.0880	-.0530	.0060	.0260	.0020	-.0770	-.0940	-.0940	-.0940	-.0940	-.0940	-.0940	-.0940	-.0940	-.0940	-.0940	-.0940
105.000			.1640	.1550	.0010	-.1030	-.1130	-.1130	-.1130	-.1130	-.1130	-.1130	-.1130	-.1130	-.1130	-.1130	-.1130
110.000	-.0890	-.1020	.5200	.1680	-.0460	-.0890	-.1020	-.1020	-.1020	-.1020	-.1020	-.1020	-.1020	-.1020	-.1020	-.1020	-.1020
120.000			.3110	.2030	-.1740	-.1150	.0490	.0490	.0490	.0490	.0490	.0490	.0490	.0490	.0490	.0490	.0490
135.000	-.0820	-.0270	.0000	.0980	-.0800	.0640	.1060	.1060	.1060	.1060	.1060	.1060	.1060	.1060	.1060	.1060	.1060
150.000	-.0670	-.1370	.1370	.3000	.1290	.1530	-.0370	-.0370	-.0370	-.0370	-.0370	-.0370	-.0370	-.0370	-.0370	-.0370	-.0370
165.000	-.2110	-.0470	.1230	.1230	.1230	.1230	.1230	.1230	.1230	.1230	.1230	.1230	.1230	.1230	.1230	.1230	.1230
180.000																	

PARAMETRIC DATA

ALPHAT = 2.000 ONDRINC = .500
 RUDDER = .000 ELEVON = .000
 RUDDFLR = .000

TABULATED STRESS DATA - 1A9B

AMES 97-717 1A9 OCA + S3 + T9 ORBITER FUSELAGE

(RBOCUS)

MACH (1) = 1.555 BETAT (2) = -5.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	PHI	1.0005	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI																
1.3560	1.0591	.5285	-.1070	-.0960	.0380					.0700		-.0900	-.1070	-.1320	-.0930	-.0140
20.0000		.6075	.0260	-.0190	.0290					-.0180		-.0870	-.0750	.0640	-.0170	.0070
40.0000		.7100	.0240	.2020	.0490					-.0810		-.0700	-.0240	.0640	-.0170	.0070
55.0000		.7250	.1510	.3020	.1645					.0630		.0780		-.1550	-.1410	-.0500
70.0000		.6840	.2070	.2780	.1940					.1430		.0750	-.1880	-.1930	-.0760	-.0480
90.0000		.5890	.1570	.2720	.2210					.3140		.0130	-.1960	-.1950	-.1360	-.0830
120.0000		.4750	.1180	.2510	.2750					.4520		-.1420	-.2050	.0600	-.0690	-.1800
142.0000		.4010	.0350	.2100	.6780					.6520		-.2860	-.1280	-.1660	-.1530	-.0780
157.0000					.9290					.5730		-.3690	-.2140	-.2110	-.1900	-.1980
162.0000					.6490					.4490						
165.0000					.9850					.6670						
169.0000					.1480											
172.0000					.8283											
180.0000					.7869											
1.3560	.8210	.2520	.0530	.1480	.6490					.9639	1.0015	1.0392				
.5673	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392							

MACH (1) = 1.555 BETAT (3) = -3.050

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	PHI	1.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI																
1.3560	1.0591	.5400	-.1070	-.1170	.0530					.0460		-.0660	-.1430	-.1420	.0300	.0460
20.0000		.5780	.0000	-.0670	.0360					.0210		-.0730	-.0290	-.0030	-.0330	.0540
40.0000		.6440	.0070	.1390	.0550					-.0680		.0560				
55.0000		.6480	.0960	.2190	.1460					.0460		.0490	-.1770	-.2170	-.0730	-.0530
70.0000		.6040	.1360	.2000	.1780					.1700		.0430	-.2150	-.2250	-.0990	-.0615
90.0000		.5220	.0840	.1790	.2090					.3060		.0140	-.2200	-.2220	-.1790	-.0640
120.0000		.4310	.0850	.1880	.3290					.3940		-.1060	-.2200	-.2220	-.1790	-.0640

AMES 97-707 1A9 CCA + S3 + T9 ORBITER FUSELAGE (RBCBINS)

MACH (1) = 1.555

BETAT (3) = -5.050

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.02600	.03075	.0188	.0339	.0632	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3943	.5120
PHI															
142.000			.3790	.0270	.1790	.7090		.8980	.6440		-.1430	-.2290	.0000	-.1780	-.1690
151.000									.5900						
157.000									.4530						
162.000															
165.000															
169.000															
172.000															
180.000	1.3660	.8390	.2610	.0650	.1565	.8110	1.0480		.6750		-.3470	-.2740	-.1630	-.1470	-.1610
X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					

PHI

144.000	-.0380														
40.000	-.0080	.1970	.1320	.0990	-.0620	-.2290		-.0660							
70.000		-.1130	-.1150	-.1610	-.0570	-.0680	-.1110								
90.000		-.0850	-.0760	.0210	-.0310	-.0570	-.1190								
105.000			.0930	.0490	-.0580	-.1420	-.1320								
110.000			-.0690	-.0880	.3270	.0910	-.1130	-.1220	-.1040						
120.000			.3590	.2680	-.1230	-.0640	.1230		-.0450						
135.000			.1650	.1970	-.0290	.0520	.1430								
150.000			-.0620	.1810	.3130	.0270	.1040	-.0940							
165.000			-.0570	-.0590	.1470										
180.000															

MACH (1) = 1.555

BETAT (4) = 5.050

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0632	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000	1.3630	1.0560	.5060	-.0830	-.0260	.0230			-.0080		-.0980	-.1250	-.1140	-.0540	-.0070
20.000			.4730	-.0960	-.0950	.0380			.0070		-.1350				
40.000			.4450	-.0950	-.0820	.0450			-.0050		-.1200	-.1630	-.1000	-.0470	-.0630
55.000			.3860	-.0780	-.0930	.0740			.0510		-.0180				
70.000			.3110	-.0890	-.1090	.1240			.1770		-.0030	-.2520	-.3310	-.1930	-.0670
90.000		.7990	.2500	-.1460	-.1020	.1370			.2460		-.0380	-.2710	-.3080	-.2560	-.0690
120.000			.2240	-.1430	-.0410	.3270			.1740		-.1060	-.2910	-.2710	-.2240	-.0980
142.000			.2570	-.0460	.0630	.5230		.6650	.4670		-.2980	-.2640	.0000	-.1630	-.1770
150.000															
157.000															
162.000															
165.000															
169.000															
172.000							.9630		.4370						

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA9B (RBC605)

AVES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.555 BETAT (4) = 5.050

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/LB	.00000	.00375	.01888	.03339	.06302	.13355	.1506	.1581	.1732	.1958	.2259	.2711	.3270	.3953	.5120
PHI															
180.000	1.3630	.8450	.2540	.0300	.1530	.6870									
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	-.0620														
40.000	-.0631	.1079	.0070	.0070	-.0580	-.1830	-.1510								
70.000		-.1040	-.0790	-.0260	.0330	-.0340	-.0800	-.1110							
90.000		-.0770	-.0740	.0790	-.0170	-.0260	-.0940	-.1070							
105.000			.1090	.0420	-.0240	-.1150	-.1190								
110.000				.0420	-.1670	-.1130	-.0830								
120.000				.6950	.3800	-.1250	-.0720	-.0760							
135.000				.2870	.3240	.0520	-.0110	-.0290							
150.000				.3250	.4910	.1100	.0500	-.1310							
165.000				-.0750											
180.000				-.1750	-.1430										

MACH (1) = 1.555 BETAT (5) = 7.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3270	.3953	.5120
PHI															
.000	1.3390	1.0360	.4910	-.0880	-.0820	-.0200									
20.000			.4280	-.1190	-.0550	-.0200									
40.000			.3730	-.1180	-.1070	-.0320									
55.000			.3110	-.1190	-.1390	.0270									
70.000			.2360	-.1390	-.1690	.1070									
90.000		.7270	.1820	-.1990	-.1590	.1630									
120.000			.1690	-.1760	-.0870	.3320									
142.000			.2170	-.0760	.0380	.4140									
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000															
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	-.0920														
40.000	.0660	.1230	-.0550	-.0430	-.1940	-.1660									

-.0450
-.1140

(RB-803)

DATE 20 SEP 73 TABULATED PRESSURE DATA - 1A9B
 AMES 97-707 1A9 O2A + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.555 BETAT (5) = 7.070
 SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP 1.0015 1.0392

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000	-.0190	-.0690	-.0910	-.0380	-.0600	-.0900	-.1540			
90.000	-.0020	-.0190	.0540	-.0430	-.0810	-.1370	-.1480			
105.000			.1160	-.0090	-.0800	-.1590	-.1580			
110.000										
120.000			.0210	.2590	-.0100	-.2070	-.1770	-.1550		
135.000			.0290	.6430	.3770	-.1460	-.1410	-.1400		
150.000			-.0310	.2850	.3460	-.0270	-.0430	-.0790		
165.000			-.0480	.3420	.4880	.1170	.0360	-.1550		
180.000			-.2020	-.0630	.1040					

MACH (1) = 1.555 BETAT (6) = 9.090
 SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0073	.0188	.0339	.0612	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
20.000	1.3070	1.0050	.4890	-.0550	.1100	-.0610									
40.000			.3930	-.1070	.0690	-.0960									
60.000			.3160	-.1060	-.1450	-.1220									
80.000			.2420	-.1330	-.1860	-.0180									
100.000			.1690	-.1880	-.2130	.0770									
120.000			.0560	.1130	-.2410	.1330									
140.000			.1160	-.1760	-.1280	.2790									
160.000			.1760	-.0810	.0150	.3360									
180.000															
200.000															
220.000															
240.000															
260.000															
280.000															
300.000															
320.000															
340.000															
360.000															
380.000															
400.000															
420.000															
440.000															
460.000															
480.000															
500.000															

MACH (1) = 1.555 BETAT (6) = 9.090
 SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
40.000	-.0610	-.0860	-.0160	-.0910	-.1300	-.1550	-.1480			
60.000	-.0780	-.1150	-.1380	-.0890	-.1120	-.1040	-.1400			
80.000	-.0430	-.0750	-.0040	-.0860	-.1380	-.1870	-.1230			
100.000			.0480	-.0590	-.1380	-.2140	-.1520			
120.000										
140.000			-.0160	-.0540	.1780	-.0550	-.2530	-.2210	-.1660	
160.000				.6990	.3410	-.1640	-.1850	-.1950		
180.000			-.0840	-.1000	.1300	.0690	-.1100	-.1180	-.1940	

TABULATED PRESSURE DATA - IA98

AMES 97-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE

DATE 20 SEP 73

(R80805)

MACH (1) = 1.555 BETAT (6) = 9.590

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP
X/LB .5873 .6826 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI
165.000 -.1020 .2240 .3720 .5060 -.0760 -.2370
180.000 -.1930 -.1240 .0880

MACH (2) = 2.000 BETAT (1) = -8.280

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP
X/LB .0220 .0075 .0188 .0339 .0632 .1355 .1506 .1581 .1732 .1958

PHI
.000 1.3380 .9350 .5420 .1370 .0790 .1480 .0390
20.000 .5850 .2350 .1990 .1570 .0610 .0610 -.0730 -.0110
40.000 .6800 .2330 .4490 .1820 .0740 .0740 .1330 .0960
55.000 .7230 .2810 .5340 .3390 .2520 .2520 -.0570 -.0160 .0610
70.000 .7350 .2810 .4520 .3630 .2870 .2870 -.0560 -.0400 .0320
90.000 1.1860 .6930 .2180 .2450 .3780 .3350 -.0670 -.0540
120.000 .6110 .2130 .2310 .3730 .6340 .1690 -.0280 .0880 -.0540
142.000 .5260 .1650 .1980 .4880 .8720 -.0420 -.0430 .0200 -.0720 -.0810
150.000
157.000 .7460 .0040 .0040 .0040 .0040 .0040 .0040 .0040 .0040 .0040
162.000 .5760
165.000 .7710
169.000 .9310
172.000 .7710
180.000 1.3380 .8980 .3480 .1320 .1490 .5850 .7710 .7710 .7710 .7710

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392
PHI
.000 -.0600 .1040 .2380 .1800 .1650 -.0550 -.1170
40.000 .0670 .0670 .0670 .0670 .0670 .0670 .0670 .0670 .0670 .0670
70.000 -.0250 -.0490 -.0650 -.0310 .0210 -.0380 -.0160
90.000 -.0090 -.0390 -.0250 .0840 .0660 .0180 -.0290
105.000 .1650 .1930 .0650 .0010 .0010 .0350 .1250
110.000
120.000 -.0510 -.0700 .5190 .2400 .0510 .0790 -.0120
125.000 .2430 .2180 .1100 .1140 .1140 .1140 .1140 .1140 .1140 .1140
135.000 .0480 .0390 .1580 .0030 .0030 .0030 .0030 .0030 .0030 .0030
150.000 -.0510 -.0490 .0480 .0390 -.1580 .0030 .0030 .0030 .0030 .0030
165.000 -.0290 .0630 .1360 .0460 .0460 .0460 .0460 .0460 .0460 .0460
180.000 -.1510 -.1570 -.0140

BETAT (3) = -4.140

MACH (2) = 2.000

SECTION (1) ORBITER FUSELAGE

X/LB	.0000	.0175	.0488	.0939	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI									.0770						
142.000		.4900	.1440	.1780	.4000		.8830		.7410						
150.000									.6950						
157.000									.6130						
162.000							.8330		.8240						
165.000															
169.000															
172.000		.9650	.3740	.1480	.1660	.4460									
180.000	1.3920						.9639	1.0015	1.0392						

X/LB

	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
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PHI

.0000	.0320														
40.000	.0300	.0150	.1480	.0750	.0250	-.0830									
70.000		-.0510	-.0680	-.0920	-.0250	-.0450									
90.000		-.0190	-.0560	.0240	.0220	-.0320	-.0660								
105.000			.1220	.1160	.0220	-.0450	-.0730		.0820						
110.000		-.0220	-.0450	.3770	.1920	.0030	-.0410	-.0450	.0650						
120.000			.3180	.3100	-.0360	-.0720	-.0220								
135.000		-.0210	-.0310	.0960	.1390	-.0840	.0480	.0840							
150.000		-.0230	.1250	.2510	.1470	.1440	.0010								
165.000		-.0640	-.0630	.0910											
180.000															

BETAT (4) = 3.940

MACH (2) = 2.000

SECTION (1) ORBITER FUSELAGE

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000		.9440	.5710	.1280	.0300	.2050			.1160						
150.000			.5400	.1260	.0090	.2350			.1490						
157.000			.4940	.1330	.0530	.2130			.1340						
162.000			.4280	.1330	.0750	.1050			.1340						
165.000			.3670	.0390	.0390	.0390			.1800						
170.000	.8260		.3290	-.0310	-.0070	.0710			.2720						
175.000		.3340	.0250	.0180	.1000				.1980						
180.000															
142.000		.3690	.0600	.1010	.2120		.6510		.5050						
150.000									.5450						
157.000															
162.000															
165.000															
169.000															
172.000															

.7990

TABLULATED PRESSURE DATA - 1A98

(RBCBDS)

AMES 97-707 1A9 OZA + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.000 BETAT (5) = 5.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000	-.0750	-.0960	-.1060	-.0830	-.0730	-.0950	-.0950	-.1100		
90.000	-.0590	-.0770	-.0620	-.0660	-.0620	-.1010	-.1010	-.1180		
105.000			.0120	-.0410	-.0610	-.1190	-.1350			
120.000							.0610			
135.000	-.0590	-.0510	.1530	-.0170	-.1420	-.1370	-.1110	-.0430		
150.000	-.0900	-.0880	.5450	.3250	-.1430	-.1100	-.0880			
165.000	-.1070	-.0970	.1790	.1530	-.0420	-.0330	-.0730			
180.000	-.1010	-.1230	.1250	.3380	.0300	-.0190	-.1020			
			-.0030							

MACH (2) = 2.000 BETAT (6) = 8.020

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0672	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
20.000	1.3540	.9630	.5440	.1240	.0270	.1440			.0460		.0150	-.0300	-.0740	-.0670	-.0140
40.000			.4940	.0870	-.0410	.1440			.0370		-.0130				
60.000			.4210	.0780	-.0540	.0930			-.0250		-.0660	-.0620	-.1330	-.1520	-.0500
80.000			.3380	.0670	-.0400	-.0470			.0620		.0440				
100.000			.2640	-.0400	-.0630	.0290			.0710		.1010	-.0850	-.1550	-.1590	-.0930
120.000		.7220	.2270	-.1030	-.0810	-.0760			.1200		.0840	-.1010	-.1510	-.1560	-.0760
140.000			.2270	-.0450	-.0480	-.0170			.0310		-.0990	-.1810	-.1340	-.0990	-.1120
160.000			.3030	.0290	.0560	.2520			.3650		-.2090	-.2280	.0000	-.0760	-.0800
180.000							.5750								
PHI									.4940						
20.000											-.2480	-.2020	-.1670	-.1650	-.1330
40.000															
60.000							.8280								
80.000															
100.000									.7450						
120.000															
140.000															
160.000															
180.000															

MACH (2) = 2.000 BETAT (6) = 8.020

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5973	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
40.000	-.0560									
60.000	-.0810	-.0130	-.0970	-.1120	-.1270	-.1340				-.1020
80.000	-.0870	-.1040	-.1150	-.0830	-.0790	-.1010	-.1100			-.1180
100.000	-.0710	-.0890	-.0960	-.0690	-.0750	-.1200	-.1320			
120.000			.0610	-.0510	-.0750	-.1350	-.1380			
140.000										-.0440
160.000	-.0760	-.0720	.1570	-.0510	-.1620	-.1470	-.1190	-.0880		
180.000	-.1130	-.1410	-.0840	-.0630	-.0850	-.1100	-.1150			
			-.1020	-.1020	-.1020	-.0910	-.1220			

TABULATED PRESSURE DATA - 1A9B

(RECORDS)

AMES 97-707 1A9 OZA + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.000 BETAT (6) = 8.020

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .5673 .6626 .7380 .7869 .8283 .8848 .9282 .9639 1.0015 1.0392

PHI

165.0000 -.1530 -.0240 .2030 -.0780 -.0770 -.1500
160.0000 -.1590 -.1700 -.0560

AMES 97-757 1A9 O2A + S3 + T9 ORBITER FUSELAGE

(RB0806) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .03000 SCALE

MACH (1) = 1.555 BETAT (1) = -7.100

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.0275	.0375	.0188	.0339	.0632	.1355	.1556	.1581	.1732	.1958	.2259	.2711	.3210	.3953	.5120
PHI	1.3570	1.0170	.4960	-.0820	.0240	.0010	-.0390	-.0690	-.1270	-.1430	-.0630	-.0570	-.0910	-.0680	-.0490
20.000	.5880	.0420	.0790	.0060	-.0920	-.0630	-.0630	-.0920	-.0690	-.1160	.0330	.0490	.1230	.1100	.1270
40.000	.7410	.1390	.2780	.0570	.1100	.1100	.1270	.1270	.1210	-.1780	.0300	.0290	.1130	.1130	.1130
55.000	.7850	.2350	.3910	.2060	.2260	.3690	.3690	.3690	.1570	-.1590	-.0040	.0040	.0490	.0490	.0490
70.000	.7600	.2870	.3740	.2460	.2770	.5220	.5220	.5220	.0220	-.1740	-.1520	-.1270	-.1130	-.1130	-.1130
90.000	1.1790	.2390	.3700	.2770	.7120	.7120	.7120	.7120	-.2240	-.0860	-.1390	-.1230	-.0860	-.0860	-.0860
120.000	.4650	.1020	.2870	.7390	.6730	.6730	.6730	.6730	-.3610	-.2450	-.1840	-.2190	-.3610	-.3610	-.3610
150.000	1.0970	1.0970	1.0970	1.0970	1.0970	1.0970	1.0970	1.0970	1.0970	1.0970	1.0970	1.0970	1.0970	1.0970	1.0970
157.000	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392	1.0392	1.0392	1.0392	1.0392	1.0392	1.0392
162.000	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392	1.0392	1.0392	1.0392	1.0392	1.0392
165.000	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392	1.0392	1.0392	1.0392	1.0392	1.0392
169.000	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392	1.0392	1.0392	1.0392	1.0392	1.0392
172.000	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392	1.0392	1.0392	1.0392	1.0392	1.0392
180.000	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392	1.0392	1.0392	1.0392	1.0392	1.0392

PARAMETRIC DATA

X/LB	.0275	.0375	.0188	.0339	.0632	.1355	.1556	.1581	.1732	.1958	.2259	.2711	.3210	.3953	.5120
PHI	-.1180	-.1180	-.1180	-.1180	-.1180	-.1180	-.1180	-.1180	-.1180	-.1180	-.1180	-.1180	-.1180	-.1180	-.1180
40.000	.3040	.3040	.3040	.3040	.3040	.3040	.3040	.3040	.3040	.3040	.3040	.3040	.3040	.3040	.3040
70.000	-.0710	-.0710	-.0710	-.0710	-.0710	-.0710	-.0710	-.0710	-.0710	-.0710	-.0710	-.0710	-.0710	-.0710	-.0710
90.000	-.0290	-.0290	-.0290	-.0290	-.0290	-.0290	-.0290	-.0290	-.0290	-.0290	-.0290	-.0290	-.0290	-.0290	-.0290
105.000	.1770	.1770	.1770	.1770	.1770	.1770	.1770	.1770	.1770	.1770	.1770	.1770	.1770	.1770	.1770
110.000	-.0570	-.0570	-.0570	-.0570	-.0570	-.0570	-.0570	-.0570	-.0570	-.0570	-.0570	-.0570	-.0570	-.0570	-.0570
120.000	.3520	.3520	.3520	.3520	.3520	.3520	.3520	.3520	.3520	.3520	.3520	.3520	.3520	.3520	.3520
135.000	.1340	.1340	.1340	.1340	.1340	.1340	.1340	.1340	.1340	.1340	.1340	.1340	.1340	.1340	.1340
150.000	-.0580	-.0580	-.0580	-.0580	-.0580	-.0580	-.0580	-.0580	-.0580	-.0580	-.0580	-.0580	-.0580	-.0580	-.0580
165.000	-.0320	-.0320	-.0320	-.0320	-.0320	-.0320	-.0320	-.0320	-.0320	-.0320	-.0320	-.0320	-.0320	-.0320	-.0320
180.000	-.2450	-.2450	-.2450	-.2450	-.2450	-.2450	-.2450	-.2450	-.2450	-.2450	-.2450	-.2450	-.2450	-.2450	-.2450

ALPHAT = .000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDDFLR = .000

(RBOB016)

TABLED PRESSURE DATA - 1A99
 AMES 07-707 1A9 O2A + S3 + T9 ORBITER FUSELAGE

DATE 20 SEP 73

MACH (1) = 1.555 BETAT (3) = -3.060

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0632	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI	142.000	.4220	.0580	.2190	.7530	.8920	.6660	-.1410	-.1290	-.2020	.0030	-.1490	-.1490	-.0570	-.5680
150.000	157.000	162.000	165.000	169.000	172.000	180.000	1.3920	.8890	.3100	.0880	.1950	.8790	1.0670	.9639	1.0392
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392	-.0490	-.0490	-.0510	-.0510	-.0510
PHI	180.000	185.000	190.000	195.000	200.000	205.000	210.000	215.000	220.000	225.000	230.000	235.000	240.000	245.000	250.000
PHI	1240	-.0930	-.1070	-.0380	.0660	.0990	.0420	-.0450	-.1200	-.1130	-.0870	-.0950	-.0980	-.0980	-.0980
PHI	315.000	310.000	320.000	325.000	330.000	335.000	340.000	345.000	350.000	355.000	360.000	365.000	370.000	375.000	380.000
PHI	385.000	390.000	395.000	400.000	405.000	410.000	415.000	420.000	425.000	430.000	435.000	440.000	445.000	450.000	455.000

MACH (1) = 1.555 BETAT (4) = 5.050

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0632	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI	142.000	.4340	.0590	.2190	.7530	.8920	.6660	-.1410	-.1290	-.2020	.0030	-.1490	-.1490	-.0570	-.5680
150.000	157.000	162.000	165.000	169.000	172.000	180.000	1.3920	.8890	.3100	.0880	.1950	.8790	1.0670	.9639	1.0392
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392	-.0490	-.0490	-.0510	-.0510	-.0510
PHI	180.000	185.000	190.000	195.000	200.000	205.000	210.000	215.000	220.000	225.000	230.000	235.000	240.000	245.000	250.000
PHI	1240	-.0930	-.1070	-.0380	.0660	.0990	.0420	-.0450	-.1200	-.1130	-.0870	-.0950	-.0980	-.0980	-.0980
PHI	315.000	310.000	320.000	325.000	330.000	335.000	340.000	345.000	350.000	355.000	360.000	365.000	370.000	375.000	380.000
PHI	385.000	390.000	395.000	400.000	405.000	410.000	415.000	420.000	425.000	430.000	435.000	440.000	445.000	450.000	455.000

.9870

AMES 97-707 IAS O2A + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.555		BETAT (4) = 5.070			
SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP			
X/LB	PHI				
.0000	.0000	.0188	.0339	.0632	.1355
.1000	.13680	.3070	.1030	.1980	.7850
.2000	.5873	.6626	.7380	.7869	.8848
.3000	-.1010	.0870	.0120	-.1130	-.1780
.4000	-.1180	-.1070	.0240	.0650	-.0550
.5000	-.1070	-.0970	.0420	.0260	-.0770
.6000	-.0750	-.0660	.1310	.0530	-.0910
.7000	-.0330	-.0560	.2520	.0510	-.0970
.8000	-.0380	-.0540	.6980	.3720	-.1170
.9000	-.0390	-.0540	.2230	.3340	.0880
1.0000	-.1560	-.1270	.2980	.4830	.1230
1.1000					
1.2000					
1.3000					
1.4000					
1.5000					
1.6000					
1.7000					
1.8000					
1.9000					
2.0000					
MACH (1) = 1.555 <td colspan="5">BETAT (5) = 7.160</td>	BETAT (5) = 7.160				
SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP			
X/LB	PHI				
.0000	.0000	.0188	.0339	.0632	.1355
.1000	1.3620	1.0540	.4880	-.0670	.1410
.2000	.4190	-.1030	.0540	-.0190	-.0180
.3000	.3560	-.1040	-.0750	-.0320	-.0320
.4000	.2980	-.1050	-.1190	.0480	.0480
.5000	.2310	-.1340	-.1580	.1160	.1160
.6000	.7350	.1920	-.1970	-.1580	.1840
.7000	.1980	-.1250	-.0740	.3390	.3390
.8000	.2620	-.0280	.0720	.4420	.4420
.9000					
1.0000					
1.1000					
1.2000					
1.3000					
1.4000					
1.5000					
1.6000					
1.7000					
1.8000					
1.9000					
2.0000					

DATE 20 SEP 73

TABLATED PRESSURE DATA - LABD

(8026 16)

AXES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.555 BETAT (5) = 7.060

SECTION (1) ORBITER FUSELAGE

X/LB	.3873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000	-.0210	-.0440	-.0460	-.0690	-.0400	-.0980	-.0980	-.1370		
90.000	.0040	.0030	.0730	-.0040	-.0620	-.1240	-.1300	-.1410		
105.000			.1310	.0070	-.0630	-.1450	-.1410		-.0540	
110.000		.0280	.0230	.0080	-.2030	-.1540	-.1390		-.1180	
120.000			.0750	.3760	-.1450	-.1340	-.1460			
135.000		-.0980	-.0400	.2110	.3330	.0340	-.0300	-.0670		
150.000		-.1620	-.3240	.5000	.1120	.1200	-.1510			
160.000		-.2280	-.0590	.1360						

MACH (1) = 1.555 BETAT (6) = 9.090

SECTION (1) ORBITER FUSELAGE

X/LB	.0000	.0075	.0188	.0339	.0612	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3210	.3953	.5120
PHI															
70.000	1.3360	.9860	.4750	-.0360	.1500	-.0540			-.1320	-.1790	-.0640	-.0850	-.1490		
90.000		.3840	-.0970	.1140	-.0840				-.1480	-.1210	-.2040	-.0960	-.1030		
105.000			.3030	-.0990	-.1240				-.0880	-.0520					
120.000			.2360	-.1220	-.0050				.0520	-.0270	-.2480	-.3100	-.1260	.0140	
140.000			.1630	-.1930	-.2020	.0880			.1610	-.0760	-.2740	-.2820	-.1460	.0020	
160.000		.6640	.1190	-.2360	-.1980	.1530			.1930	-.1640	-.3280	-.2010	-.1720	-.0610	
180.000			.1420	-.1860	-.1050	.1960			.1030	-.3640	-.3110	.0000	-.0950	-.1360	
200.000			.2210	-.1480	.0490	.3670	.5450		.2530						
220.000									.3400						
240.000										-.4220	-.3150	-.2420	-.1520	-.1660	
260.000															
280.000															
300.000															
320.000															
340.000															
360.000															
380.000															
400.000															
420.000															
440.000															
460.000															
480.000															
500.000															
520.000															
540.000															
560.000															
580.000															
600.000															
620.000															
640.000															
660.000															
680.000															
700.000															
720.000															
740.000															
760.000															
780.000															
800.000															
820.000															
840.000															
860.000															
880.000															
900.000															
920.000															
940.000															
960.000															
980.000															
1000.000															

SECTION (1) ORBITER FUSELAGE

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000	-.0910									
90.000	-.1040	.0040								
105.000		-.0990	-.0850	-.0810	-.1070	-.1200				
120.000		-.0330	-.0520	-.0630	-.1140	-.0930				
140.000			.1480	-.0610	-.1130	-.1200				
160.000				.2170	-.0620	-.2540	-.1940	-.1550		
180.000				.7180	.3570	-.1660	-.1830	-.2240		
200.000				.0620	.0270	-.0250	-.0980	-.1630		

MACH (1) = 1.555 BETA* (6) = 9.100

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-1.420		.1920	.3890	.5390	-.0860	-.2380		
180.000		-.2040	-.1430	.0790						

MACH (2) = 2.000 BETA* (1) = -8.290

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0220	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3210	.3953	.5120
PHI															
20.000	1.3870	.9010	.4280	.0870	.1090	.1510		.0520	.0770	.0920	.0180	-.0290	-.0660	-.0670	-.0090
40.000		.4870	.1460	.2320	.1710			.0770	.0930	.0930	.0320	-.0140	-.0290	-.0290	.0070
55.000		.6410	.1420	.4950	.2040			.2820	.2820	.2820	.2090				
70.000		.7080	.1740	.5880	.3590			.3230	.3230	.3230	.2690	.0430	-.0440	.0030	.0650
90.000		1.2150	.7090	.3480	.3800			.4070	.4070	.4070	.2890	.0160	-.0380	-.0220	.0230
100.000		.6530	.2420	.2410	.4120			.7010	.7010	.7010	.2070	-.0130	-.0620	-.0410	-.0320
120.000		.5710	.1990	.2410	.5410			.8610	.8610	.8610	-.0130	-.0240	.0220	-.0460	-.0580
157.000					1.0330										
162.000					.8090										
165.000					.6480										
169.000															
172.000					.9350										
180.000	1.3870	.9610	.3940	.1690	.1910	.4490		.8410	.8410	.8410	-.0710	.0310	-.0020	-.0380	-.0530

MACH (2) = 2.000 BETA* (1) = -8.290

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
40.000		-.0480								
60.000		.1140								
70.000		.0690	.2290	.1490	.0710	-.0660		-.1360		-.0780
90.000		-.0100	-.0920	.0510	.0340	.1480	-.0710			-.1710
100.000		.0080	-.0210	.0260	.0900	.0770	.0240	-.0160		
105.000			.1340	.1910	.0770	.0210	-.0240			
110.000										
120.000		-.0230	-.0380	.5110	.2660	.0540	.0130	.0540	.1280	
135.000			.3040	.2880	-.0840	-.0830	-.0660			
150.000		-.0290	-.0240	.0710	-.0340	.0350	.0440			
165.000		-.0040		.1120	.2610	.1410	.1800	.0690		
180.000		-.1240	-.0390	-.0030						

MACH (2) = 2.000 BETAT (3) = -.130

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	PHI	0.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3210	.3953	.5120
142.000																
150.000																
157.000																
162.000																
165.000																
169.000																
172.000																
180.000																
X/LB	PHI	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					

-.0570
-.0880
-.1090
-.0000
-.0500
-.0490

-.1880
-.1360
-.0390
-.0250
-.0640

-.1730
-.1420
-.0790
-.0110
-.0820

-.0980
-.0990

.0510
.0320

MACH (2) = 2.000 BETAT (4) = 3.950

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	PHI	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3210	.3953	.5120
142.000																
150.000																
157.000																
162.000																
165.000																
169.000																
172.000																
180.000																
X/LB	PHI	.0020	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3210	.3953	.5120
142.000																
150.000																
157.000																
162.000																
165.000																
169.000																
172.000																
X/LB	PHI	.0020	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3210	.3953	.5120
142.000																
150.000																
157.000																
162.000																
165.000																
169.000																
172.000																
X/LB	PHI	.0020	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3210	.3953	.5120
142.000																
150.000																
157.000																
162.000																
165.000																
169.000																
172.000																
X/LB	PHI	.0020	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3210	.3953	.5120
142.000																
150.000																
157.000																
162.000																
165.000																
169.000																
172.000																

.8760

.6390

-.2050

-.0190

-.0570

AMES 97-707 1A9 ORA + S3 + T9 ORBITER FUSELAGE

(R80806)

MACH (2) = 2.000 BETAT (5) = 5.980

SECTION (1) ORBITER FUSELAGE	DEPENDENT VARIABLE CP									
X/LP	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PMI										
70.000	-.0660	-.0900	-.0990	-.0990	-.0640	-.0630	-.0860	-.0940		
90.000	-.0990	-.0760	-.0250	-.0510	-.0510	-.0970	-.0970	-.1090		
105.000			.0080	-.0410	-.0530	-.1120	-.1210			
110.000								.0580		
120.000	-.0610	-.0510	.1670	-.0030	-.1480	-.1320	-.0970	-.0550		
130.000			.3420	.3490	-.1490	-.1150	-.1070			
150.000	-.0690	-.0750	.1330	.1820	-.0160	-.0290	-.1020			
165.000	-.1200		.0700	.3510	.0420	-.0090	-.0930			
180.000	-.0920	-.1130	.0050							

(R8C807) (24 MAY 73)

TABULATED PRESSURE DATA - 1A9B

DATE 24 SEP 73

AMES 97-707 1A9 O2A + S3 + T9 ORBITER FUSELAGE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .03000 SCALE

MACH (1) = 1.555 BETAT (1) = -7.110

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.0000	.0025	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650	.0700	.0750	.0800	.0850	.0900	.0950	.1000	.1050	.1100	.1150	.1200	.1250	.1300	.1350	.1400	.1450	.1500	.1550	.1600	.1650	.1700	.1750	.1800	.1850	.1900	.1950	.2000	.2050	.2100	.2150	.2200	.2250	.2300	.2350	.2400	.2450	.2500	.2550	.2600	.2650	.2700	.2750	.2800	.2850	.2900	.2950	.3000	.3050	.3100	.3150	.3200	.3250	.3300	.3350	.3400	.3450	.3500	.3550	.3600	.3650	.3700	.3750	.3800	.3850	.3900	.3950	.4000	.4050	.4100	.4150	.4200	.4250	.4300	.4350	.4400	.4450	.4500	.4550	.4600	.4650	.4700	.4750	.4800	.4850	.4900	.4950	.5000																																																																																																																																																																																									
PHI	1.3910	1.0260	.4830	-.0830	.0510	-.0020	-.0360	-.0510	-.0640	-.0770	-.0890	-.1010	-.1130	-.1250	-.1370	-.1490	-.1610	-.1730	-.1850	-.1970	-.2090	-.2210	-.2330	-.2450	-.2570	-.2690	-.2810	-.2930	-.3050	-.3170	-.3290	-.3410	-.3530	-.3650	-.3770	-.3890	-.4010	-.4130	-.4250	-.4370	-.4490	-.4610	-.4730	-.4850	-.4970	-.5090	-.5210	-.5330	-.5450	-.5570	-.5690	-.5810	-.5930	-.6050	-.6170	-.6290	-.6410	-.6530	-.6650	-.6770	-.6890	-.7010	-.7130	-.7250	-.7370	-.7490	-.7610	-.7730	-.7850	-.7970	-.8090	-.8210	-.8330	-.8450	-.8570	-.8690	-.8810	-.8930	-.9050	-.9170	-.9290	-.9410	-.9530	-.9650	-.9770	-.9890	-.1000	-.1020	-.1040	-.1060	-.1080	-.1100	-.1120	-.1140	-.1160	-.1180	-.1200	-.1220	-.1240	-.1260	-.1280	-.1300	-.1320	-.1340	-.1360	-.1380	-.1400	-.1420	-.1440	-.1460	-.1480	-.1500	-.1520	-.1540	-.1560	-.1580	-.1600	-.1620	-.1640	-.1660	-.1680	-.1700	-.1720	-.1740	-.1760	-.1780	-.1800	-.1820	-.1840	-.1860	-.1880	-.1900	-.1920	-.1940	-.1960	-.1980	-.2000	-.2020	-.2040	-.2060	-.2080	-.2100	-.2120	-.2140	-.2160	-.2180	-.2200	-.2220	-.2240	-.2260	-.2280	-.2300	-.2320	-.2340	-.2360	-.2380	-.2400	-.2420	-.2440	-.2460	-.2480	-.2500	-.2520	-.2540	-.2560	-.2580	-.2600	-.2620	-.2640	-.2660	-.2680	-.2700	-.2720	-.2740	-.2760	-.2780	-.2800	-.2820	-.2840	-.2860	-.2880	-.2900	-.2920	-.2940	-.2960	-.2980	-.3000	-.3020	-.3040	-.3060	-.3080	-.3100	-.3120	-.3140	-.3160	-.3180	-.3200	-.3220	-.3240	-.3260	-.3280	-.3300	-.3320	-.3340	-.3360	-.3380	-.3400	-.3420	-.3440	-.3460	-.3480	-.3500	-.3520	-.3540	-.3560	-.3580	-.3600	-.3620	-.3640	-.3660	-.3680	-.3700	-.3720	-.3740	-.3760	-.3780	-.3800	-.3820	-.3840	-.3860	-.3880	-.3900	-.3920	-.3940	-.3960	-.3980	-.4000	-.4020	-.4040	-.4060	-.4080	-.4100	-.4120	-.4140	-.4160	-.4180	-.4200	-.4220	-.4240	-.4260	-.4280	-.4300	-.4320	-.4340	-.4360	-.4380	-.4400	-.4420	-.4440	-.4460	-.4480	-.4500	-.4520	-.4540	-.4560	-.4580	-.4600	-.4620	-.4640	-.4660	-.4680	-.4700	-.4720	-.4740	-.4760	-.4780	-.4800	-.4820	-.4840	-.4860	-.4880	-.4900	-.4920	-.4940	-.4960	-.4980	-.5000

SECTION (2) ORBITER FUSELAGE

X/LB	.0000	.0025	.0050	.0100	.0150	.0200	.0250	.0300	.0350	.0400	.0450	.0500	.0550	.0600	.0650	.0700	.0750	.0800	.0850	.0900	.0950	.1000	.1050	.1100	.1150	.1200	.1250	.1300	.1350	.1400	.1450	.1500	.1550	.1600	.1650	.1700	.1750	.1800	.1850	.1900	.1950	.2000	.2050	.2100	.2150	.2200	.2250	.2300	.2350	.2400	.2450	.2500	.2550	.2600	.2650	.2700	.2750	.2800	.2850	.2900	.2950	.3000	.3050	.3100	.3150	.3200	.3250	.3300	.3350	.3400	.3450	.3500	.3550	.3600	.3650	.3700	.3750	.3800	.3850	.3900	.3950	.4000	.4050	.4100	.4150	.4200	.4250	.4300	.4350	.4400	.4450	.4500	.4550	.4600	.4650	.4700	.4750	.4800	.4850	.4900	.4950	.5000																																																																																																																																																																																									
PHI	1.3910	1.0260	.4830	-.0830	.0510	-.0020	-.0360	-.0510	-.0640	-.0770	-.0890	-.1010	-.1130	-.1250	-.1370	-.1490	-.1610	-.1730	-.1850	-.1970	-.2090	-.2210	-.2330	-.2450	-.2570	-.2690	-.2810	-.2930	-.3050	-.3170	-.3290	-.3410	-.3530	-.3650	-.3770	-.3890	-.4010	-.4130	-.4250	-.4370	-.4490	-.4610	-.4730	-.4850	-.4970	-.5090	-.5210	-.5330	-.5450	-.5570	-.5690	-.5810	-.5930	-.6050	-.6170	-.6290	-.6410	-.6530	-.6650	-.6770	-.6890	-.7010	-.7130	-.7250	-.7370	-.7490	-.7610	-.7730	-.7850	-.7970	-.8090	-.8210	-.8330	-.8450	-.8570	-.8690	-.8810	-.8930	-.9050	-.9170	-.9290	-.9410	-.9530	-.9650	-.9770	-.9890	-.1000	-.1020	-.1040	-.1060	-.1080	-.1100	-.1120	-.1140	-.1160	-.1180	-.1200	-.1220	-.1240	-.1260	-.1280	-.1300	-.1320	-.1340	-.1360	-.1380	-.1400	-.1420	-.1440	-.1460	-.1480	-.1500	-.1520	-.1540	-.1560	-.1580	-.1600	-.1620	-.1640	-.1660	-.1680	-.1700	-.1720	-.1740	-.1760	-.1780	-.1800	-.1820	-.1840	-.1860	-.1880	-.1900	-.1920	-.1940	-.1960	-.1980	-.2000	-.2020	-.2040	-.2060	-.2080	-.2100	-.2120	-.2140	-.2160	-.2180	-.2200	-.2220	-.2240	-.2260	-.2280	-.2300	-.2320	-.2340	-.2360	-.2380	-.2400	-.2420	-.2440	-.2460	-.2480	-.2500	-.2520	-.2540	-.2560	-.2580	-.2600	-.2620	-.2640	-.2660	-.2680	-.2700	-.2720	-.2740	-.2760	-.2780	-.2800	-.2820	-.2840	-.2860	-.2880	-.2900	-.2920	-.2940	-.2960	-.2980	-.3000	-.3020	-.3040	-.3060	-.3080	-.3100	-.3120	-.3140	-.3160	-.3180	-.3200	-.3220	-.3240	-.3260	-.3280	-.3300	-.3320	-.3340	-.3360	-.3380	-.3400	-.3420	-.3440	-.3460	-.3480	-.3500	-.3520	-.3540	-.3560	-.3580	-.3600	-.3620	-.3640	-.3660	-.3680	-.3700	-.3720	-.3740	-.3760	-.3780	-.3800	-.3820	-.3840	-.3860	-.3880	-.3900	-.3920	-.3940	-.3960	-.3980	-.4000	-.4020	-.4040	-.4060	-.4080	-.4100	-.4120	-.4140	-.4160	-.4180	-.4200	-.4220	-.4240	-.4260	-.4280	-.4300	-.4320	-.4340	-.4360	-.4380	-.4400	-.4420	-.4440	-.4460	-.4480	-.4500	-.4520	-.4540	-.4560	-.4580	-.4600	-.4620	-.4640	-.4660	-.4680	-.4700	-.4720	-.4740	-.4760	-.4780	-.4800	-.4820	-.4840	-.4860	-.4880	-.4900	-.4920	-.4940	-.4960	-.4980	-.5000

DATE 20 SEP 73

TABULATED PRESSURE DATA - 1A98

(RBOB07)

AVES 97-707 1A9 OZA + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.555 BETAT (3) = -3.070

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP		
X/LB	PHI	1	2	3
.0000	.0188	.0339	.0602	.1355
.1732	.1958	.2259	.2711	.3210
.3953	.5120			

142.0000	.4670	.0980	.2550	.7950
150.0000				
157.0000		.9110		
165.0000				
169.0000				
172.0000	.3550	.1200	.2390	.9390
180.0000	1.4180	.9440	3.5980	1.0980

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP		
X/LB	PHI	1	2	3
.0000	.0188	.0339	.0602	.1355
.1732	.1958	.2259	.2711	.3210
.3953	.5120			
142.0000	.4670	.0980	.2550	.7950
150.0000				
157.0000		.9110		
165.0000				
169.0000				
172.0000	.3550	.1200	.2390	.9390
180.0000	1.4180	.9440	3.5980	1.0980

MACH (1) = 1.555 BETAT (4) = 5.040

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP		
X/LB	PHI	1	2	3
.0000	.0188	.0339	.0602	.1355
.1732	.1958	.2259	.2711	.3210
.3953	.5120			

142.0000	.4670	.0980	.2550	.7950
150.0000				
157.0000		.9110		
165.0000				
169.0000				
172.0000	.3550	.1200	.2390	.9390
180.0000	1.4180	.9440	3.5980	1.0980

(RBOB077)

TABLATED PRESSURE DATA - 1A98
 AVES 97-707 1A9 O2A + S3 + T9 ORBITER FUSELAGE

DATE 20 SEP 73

BETAT (4) = 5.040

MACH (1) = 1.555

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP	
X/LB	PHI		
.0000	1.4120	.0339	.1506
.0075	.9510	.0602	.1561
.0100	.6626	.0883	.1732
.0188	.7380	.8283	.1958
.0339	.5873	.7869	.2259
.0602		.6848	.2711
.1506		.9262	.3200
.1561		.9639	.3953
.1732		1.0015	.5120
.1958		1.0392	
.2259			
.2711			
.3200			
.3953			
.5120			

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP	
X/LB	PHI		
.0000	1.4120	.0339	.1506
.0075	.9510	.0602	.1561
.0100	.6626	.0883	.1732
.0188	.7380	.8283	.1958
.0339	.5873	.7869	.2259
.0602		.6848	.2711
.1506		.9262	.3200
.1561		.9639	.3953
.1732		1.0015	.5120
.1958		1.0392	
.2259			
.2711			
.3200			
.3953			
.5120			

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CF	
X/LB	PHI		
.0000	1.4120	.0339	.1506
.0075	.9510	.0602	.1561
.0100	.6626	.0883	.1732
.0188	.7380	.8283	.1958
.0339	.5873	.7869	.2259
.0602		.6848	.2711
.1506		.9262	.3200
.1561		.9639	.3953
.1732		1.0015	.5120
.1958		1.0392	
.2259			
.2711			
.3200			
.3953			
.5120			

BETAT (5) = 7.060

MACH (1) = 1.555

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CF	
X/LB	PHI		
.0000	1.3950	.0339	.1506
.0075	.9950	.0602	.1561
.0100	.6690	.0883	.1732
.0188	.7440	.8283	.1958
.0339	.5873	.7869	.2259
.0602		.6848	.2711
.1506		.9262	.3200
.1561		.9639	.3953
.1732		1.0015	.5120
.1958		1.0392	
.2259			
.2711			
.3200			
.3953			
.5120			

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CF	
X/LB	PHI		
.0000	1.3950	.0339	.1506
.0075	.9950	.0602	.1561
.0100	.6690	.0883	.1732
.0188	.7440	.8283	.1958
.0339	.5873	.7869	.2259
.0602		.6848	.2711
.1506		.9262	.3200
.1561		.9639	.3953
.1732		1.0015	.5120
.1958		1.0392	
.2259			
.2711			
.3200			
.3953			
.5120			

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CF	
X/LB	PHI		
.0000	1.3950	.0339	.1506
.0075	.9950	.0602	.1561
.0100	.6690	.0883	.1732
.0188	.7440	.8283	.1958
.0339	.5873	.7869	.2259
.0602		.6848	.2711
.1506		.9262	.3200
.1561		.9639	.3953
.1732		1.0015	.5120
.1958		1.0392	
.2259			
.2711			
.3200			
.3953			
.5120			

DATE 20 SEP 73

TABLATED PRESSURE DATA - 1A9B

(RECORD 7)

AMES 97-707 1A9 O2A + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.555 BETAT (6) = 9.080

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000	-.1410	.1770	.3580	.0110	-.0690	-.2280				
180.000	-.2020	-.0800	.0600							

MACH (2) = 2.000 BETAT (1) = -8.310

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
20.000	1.4280	.9000	.4370	.0710	.0890	.1480			.0670	.0280	-.0280	-.0530	-.0580	-.0580	-.0580
40.000			.4800	.1130	.2030	.1720			.0940	.0450	.0500	.0070	-.0280	-.0190	.0170
45.000			.6360	.1120	.4790	.2240			.0960	.2410	.2940	.0560	-.0320	.0210	.0860
55.000			.7180	.1420	.6300	.3940			.3170	.2940	.3590	.0280	-.0170	-.0310	.0460
70.000			.7410	.1790	.6200	.4200			.4740	.3090	.0280	-.0170	-.0310	-.0160	-.0240
90.000			1.2430	.7260	.2420	.4440			.7140	.2350	.0280	-.0170	-.0310	-.0160	-.0240
120.000			.6910	.2750	.2720	.4670			.0910	.0340	-.0170	-.0310	-.0310	-.0160	-.0240
142.000			.6170	.2440	.2870	.6690		1.0790	.8530	-.0540	.0540	.0150	-.0150	-.0150	-.0250
157.000									.7010						
165.000							1.1030		.9030						
169.000					.2350	.5100									
172.000					.2120	.2350									
180.000	1.4280	1.0190	.4440	.2120	.2350	.5100			.9030						

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
40.000	-.0420	.0770	.2380	.1470	.0580	-.0910			-.0960	-.2040
70.000	.0170	.0090	.0770	.0770	.0500	.0170	.0270			
90.000	.0990	.0140	.1100	.1270	.0880	.0240	.0290			
100.000		.2310	.2310	.2280	.0890	.0130	.0020			
110.000		.0200	.0010	.0300	.2990	.0610	.0210	.0270	.1330	.1230
120.000			.3720	.3520	-.0610	-.0720	-.0240			
135.000			.0080	.0270	-.1370	-.1290	.0670	.0930		
150.000			.0230	.1680	.3190	.1680	.2490	.0170		
165.000			-.0160	-.0220						

DATE 20 SEP 71

ABLATED PRESSURE DATA - 1A9B

(R808U7)

AVES 97-707 1A9 CGA + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.000 BETAT (2) = -6.260

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP	
X/LB	PHI		
.0000	.0000	.0188	.0339
.0075	.0075	.0602	.1355
.1506	.1506	.1732	.1958
.2259	.2259	.2711	.3200
.3953	.3953	.5120	.5120
.0770	.0770	.0740	.0740
.0890	.0890	.0760	.0760
.0970	.0970	.0780	.0780
.2050	.2050	.0800	.0800
.2660	.2660	.0820	.0820
.3230	.3230	.0840	.0840
.4280	.4280	.0860	.0860
.6480	.6480	.0880	.0880
.8790	.8790	.0900	.0900
.1430	.1430	.0920	.0920
.1958	.1958	.0940	.0940
.2259	.2259	.0960	.0960
.2711	.2711	.0980	.0980
.3200	.3200	.1000	.1000
.3953	.3953	.1020	.1020
.5120	.5120	.1040	.1040
.0820	.0820	.1060	.1060
.0770	.0770	.1080	.1080
.0920	.0920	.1100	.1100
.1040	.1040	.1120	.1120
.11392	.11392	.1140	.1140
.1015	.1015	.1160	.1160
.9659	.9659	.1180	.1180
.9262	.9262	.1200	.1200
.8848	.8848	.1220	.1220
.8283	.8283	.1240	.1240
.7869	.7869	.1260	.1260
.7380	.7380	.1280	.1280
.6626	.6626	.1300	.1300
.5873	.5873	.1320	.1320
.5550	.5550	.1340	.1340
.5270	.5270	.1360	.1360
.4990	.4990	.1380	.1380
.4720	.4720	.1400	.1400
.4450	.4450	.1420	.1420
.4180	.4180	.1440	.1440
.3910	.3910	.1460	.1460
.3640	.3640	.1480	.1480
.3370	.3370	.1500	.1500
.3100	.3100	.1520	.1520
.2830	.2830	.1540	.1540
.2560	.2560	.1560	.1560
.2290	.2290	.1580	.1580
.2020	.2020	.1600	.1600
.1750	.1750	.1620	.1620
.1480	.1480	.1640	.1640
.1210	.1210	.1660	.1660
.0940	.0940	.1680	.1680
.0670	.0670	.1700	.1700
.0400	.0400	.1720	.1720
.0130	.0130	.1740	.1740
.0000	.0000	.1760	.1760

SECTION (2) ORBITER FUSELAGE		DEPENDENT VARIABLE CP	
X/LB	PHI		
.0000	.0000	.0188	.0339
.0075	.0075	.0602	.1355
.1506	.1506	.1732	.1958
.2259	.2259	.2711	.3200
.3953	.3953	.5120	.5120
.0770	.0770	.0740	.0740
.0890	.0890	.0760	.0760
.0970	.0970	.0780	.0780
.2050	.2050	.0800	.0800
.2660	.2660	.0820	.0820
.3230	.3230	.0840	.0840
.4280	.4280	.0860	.0860
.6480	.6480	.0880	.0880
.8790	.8790	.0900	.0900
.1430	.1430	.0920	.0920
.1958	.1958	.0940	.0940
.2259	.2259	.0960	.0960
.2711	.2711	.0980	.0980
.3200	.3200	.1000	.1000
.3953	.3953	.1020	.1020
.5120	.5120	.1040	.1040
.0820	.0820	.1060	.1060
.0770	.0770	.1080	.1080
.0920	.0920	.1100	.1100
.1040	.1040	.1120	.1120
.11392	.11392	.1140	.1140
.1015	.1015	.1160	.1160
.9659	.9659	.1180	.1180
.9262	.9262	.1200	.1200
.8848	.8848	.1220	.1220
.8283	.8283	.1240	.1240
.7869	.7869	.1260	.1260
.7380	.7380	.1280	.1280
.6626	.6626	.1300	.1300
.5873	.5873	.1320	.1320
.5550	.5550	.1340	.1340
.5270	.5270	.1360	.1360
.4990	.4990	.1380	.1380
.4720	.4720	.1400	.1400
.4450	.4450	.1420	.1420
.4180	.4180	.1440	.1440
.3910	.3910	.1460	.1460
.3640	.3640	.1480	.1480
.3370	.3370	.1500	.1500
.3100	.3100	.1520	.1520
.2830	.2830	.1540	.1540
.2560	.2560	.1560	.1560
.2290	.2290	.1580	.1580
.2020	.2020	.1600	.1600
.1750	.1750	.1620	.1620
.1480	.1480	.1640	.1640
.1210	.1210	.1660	.1660
.0940	.0940	.1680	.1680
.0670	.0670	.1700	.1700
.0400	.0400	.1720	.1720
.0130	.0130	.1740	.1740
.0000	.0000	.1760	.1760

SECTION (3) ORBITER FUSELAGE		DEPENDENT VARIABLE CP	
X/LB	PHI		
.0000	.0000	.0188	.0339
.0075	.0075	.0602	.1355
.1506	.1506	.1732	.1958
.2259	.2259	.2711	.3200
.3953	.3953	.5120	.5120
.0770	.0770	.0740	.0740
.0890	.0890	.0760	.0760
.0970	.0970	.0780	.0780
.2050	.2050	.0800	.0800
.2660	.2660	.0820	.0820
.3230	.3230	.0840	.0840
.4280	.4280	.0860	.0860
.6480	.6480	.0880	.0880
.8790	.8790	.0900	.0900
.1430	.1430	.0920	.0920
.1958	.1958	.0940	.0940
.2259	.2259	.0960	.0960
.2711	.2711	.0980	.0980
.3200	.3200	.1000	.1000
.3953	.3953	.1020	.1020
.5120	.5120	.1040	.1040
.0820	.0820	.1060	.1060
.0770	.0770	.1080	.1080
.0920	.0920	.1100	.1100
.1040	.1040	.1120	.1120
.11392	.11392	.1140	.1140
.1015	.1015	.1160	.1160
.9659	.9659	.1180	.1180
.9262	.9262	.1200	.1200
.8848	.8848	.1220	.1220
.8283	.8283	.1240	.1240
.7869	.7869	.1260	.1260
.7380	.7380	.1280	.1280
.6626	.6626	.1300	.1300
.5873	.5873	.1320	.1320
.5550	.5550	.1340	.1340
.5270	.5270	.1360	.1360
.4990	.4990	.1380	.1380
.4720	.4720	.1400	.1400
.4450	.4450	.1420	.1420
.4180	.4180	.1440	.1440
.3910	.3910	.1460	.1460
.3640	.3640	.1480	.1480
.3370	.3370	.1500	.1500
.3100	.3100	.1520	.1520
.2830	.2830	.1540	.1540
.2560	.2560	.1560	.1560
.2290	.2290	.1580	.1580
.2020	.2020	.1600	.1600
.1750	.1750	.1620	.1620
.1480	.1480	.1640	.1640
.1210	.1210	.1660	.1660
.0940	.0940	.1680	.1680
.0670	.0670	.1700	.1700
.0400	.0400	.1720	.1720
.0130	.0130	.1740	.1740
.0000	.0000	.1760	.1760

(RBO807)

AMES 97-707 1A9 O2A + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.000 BETAT (3) = -4.230

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0500	.0075	.0188	.0339	.0672	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000				.5880	.2090	.2580	.4680		.6410	.0870	.0310	-.0510	.0620	-.0340	-.0460
150.000								1.0070							
157.000									.7830		-.1370	-.0070	-.0100	-.0210	-.0320
162.000									.7130						
165.000							.9680		.9400		-.1690	-.1240	-.0540	-.0840	-.0950
169.000															
172.000							.2310	.2510	.5600						
180.000	1.4580	1.0710	.4720	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					

MACH (2) = 2.000 BETAT (4) = 3.940

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0672	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
20.000				.0940	.0220	.1920			.160	.1190	.0470	.0780	-.0520	-.0350	
40.000	.4820	.1000	.0160	.1980					.1420	.1080	.0670	.0140	-.0230	-.0770	-.0360
55.000	.4020	.0880	.0780	.1130					.1680	.1580	.1700	-.0370	-.0120	-.0980	-.0380
70.000	.3670	-.0230	.0140	.0930					.2340	.1700	.1370	-.0650	-.0130	-.0540	-.0510
90.000	.3610	-.0200	-.0290	.1070					.2560	.1370	.1650	-.0650	-.0140	-.0540	-.0480
120.000	.4140	.0670	.0610	.0860					.2160	-.0010	-.0300	-.0300	-.0300	-.0300	-.0300
142.000	.4680	.1410	.1810	.2840					.5800	-.0390	-.0360	.0700	.0700	-.0340	-.0300
150.000								.7780							
157.000									.6270		-.0880	-.0530	-.0860	.0030	-.0360
162.000									.6960						
165.000															
169.000															
172.000							.9500								

DATE 20 SEP 72

TABULATED PRESSURE DATA - 1A9B

(RBCB07)

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.000 SETAT (6) = 9.010

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

FHI 165.000 180.000 .0150 .2330 -.0370 -.0650 -.1300

-.1520 -.1380 -.1270 -.0220

DATE 24 SEP 73

TABLULATED PRESSURE DATA - 1A9B

AMES 97-717. 1A9 OEA + S3 + T9 ORBITER FUSELAGE

(RBC008)

BETAT (2) = -6.150

MACH (1) = 1.555

DEPENDENT VARIABLE CP

SECTION (1) ORBITER FUSELAGE

X/LB	PHI	0.000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
0.000	0.000	.4775	-.0840	.0620	.0100					-.0250		-.0650	-.0500	.0040	.0390	-.0870
20.000	1.4200	.9980	-.0220	.0880	.0220					-.0320		-.0590	-.1390	.0590	-.0030	.0210
40.000		.7040	.0650	.2480	.0530					-.0690		-.0620	-.1390	.0590	-.0030	.0210
55.000		.7520	.1580	.3560	.2300					.1770		.1270	-.1100	-.1750	.0360	.0650
70.000		.7430	.2180	.3560	.2790					.3080		.1080	-.1370	-.1470	.0090	.0450
90.000	1.2050	.6850	.2200	.3620	.3180					.4100		.0870	-.1510	-.1180	-.0930	.0180
120.000		.6120	.2200	.3780	.5320					.5720		-.0670	-.1250	.0520	-.0840	-.0040
142.000		.5510	.1700	.3620	.8600					.7570		-.2360	-.0610	-.0810	-.0770	-.0760
157.000					1.0210					.6790		-.3250	-.1510	-.1380	-.1480	-.1910
162.000										.5570						
165.000										.7810						
169.000																
172.000	1.4200	.9780	.3940	.1840	.2870	.8410		1.1770								
180.000		.5875	.6826	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
X/LB	PHI	-.1480														

BETAT (3) = -3.070

MACH (1) = 1.555

DEPENDENT VARIABLE CP

SECTION (1) ORBITER FUSELAGE

X/LB	PHI	0.000	.0075	.0188	.0339	.0602	.1355	.1516	.1561	.1732	.1958	.2259	.2711	.3200	.3953	.5120
0.000	0.000	.4480	-.1200	.0910	.0220					.0650		-.0400	-.0570	.0490	.0210	-.0800
20.000	1.4410	.9130	-.0690	.1050	.0340					-.0490		-.0360	-.0950	.0185	-.0140	-.0180
40.000		.5990	-.0340	.1430	.0630					-.0280		.1070	-.1450	-.2200	-.0320	.0210
55.000		.6220	.0240	.2200	.2510					.0760		.0760	-.1450	-.2200	-.0320	.0210
70.000		.6070	.0720	.2200	.2510					.2820		.0630	-.1800	-.1880	-.0430	.0140
90.000	1.1050	.5570	.0870	.2200	.2970					.3750		.0670	-.1900	-.1650	-.1160	.0440
120.000		.5250	.0920	.2660	.5260					.4870		-.0400	-.0570	.0490	.0210	-.0800

DATE 20 SEP 73 TABULATED PRESSURE DATA - 1A96

AMES 97-757 1A9 O2A + S3 + T9 ORBITER FUSELAGE

(RBO8D8)

MACH (1) = 1.555 BETAT (6) = 9.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
169.000		-0.1170	.2010	.3410	.5340	-0.0530	-0.2110			
180.000		-0.1740	-0.0350	.0520						

MACH (2) = 2.000 BETAT (1) = -8.310

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0070	.0075	.0188	.0339	.0612	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3270	.3953	.5120
PHI															
.000	1.4750	.9620	.4290	.0640	.0760	.1630		.0640	.0990		.0390	-0.0190	-0.0510	-0.0480	-0.0070
20.000			.4750	.1100	.1990	.1890		.0990			.0680				
40.000			.6360	.1090	.4390	.2380		.1010			.0660	.0180	-0.0270	-0.0070	.0950
55.000			.7080	.1370	.4530	.4200		.3200			.2720	.0720	-0.0210	.0380	.1120
70.000			.7500	.1750	.2760	.4520		.4000			.3140	.0720	-0.0210	.0380	.1120
90.000	1.2750		.7440	.2450	.2760	.4690		.5340			.3230	.0410	-0.0020	.0180	.0740
120.000		.7360	.2900	.3120	.4770		.7280				.2630	.0250	.0020	.0080	.0210
142.000		.6740	.2690	.3380	.6550		.9710			.2140	.0730	.0150	.0000	.0000	-0.0070
150.000							1.1920								
157.000															
162.000															
165.000															
169.000								.7440							
172.000															
180.000	1.4750	1.0880	.4960	.2690	.2850	.6670	1.1110	.9610							

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000										
40.000	-0.0390	.0570	.2140	.1190	.0340	-0.0820		-0.1940		-0.1270
70.000		.0310	-0.0040	.1030	.0820	.0470	.0500			-0.2070
90.000		.0510	.0310	.1390	.1140	.0460	.0500			
105.000			.2380	.2320	.1150	.0320	.0190			
110.000		.0420	.5280	.3220	.0790	.0460	.0460	.1240		
120.000			.4160	.3990	-0.0180	-0.0310	.0290			
135.000			.1570	.1570	-0.1040	.1150	.1550			
140.000			.0360	.2040	.2480	.2860	.1360			
165.000										
180.000		-0.1160	-0.0910	.0180						

TABLATED PRESSURE DATA - 1A88
AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE

(RBOB08)

MACH (2) = 2.000 BETAT (2) = -6.270
SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP
X/LB .0000 .0075 .0188 .0339 .0602 .1355 .1506 .1581 .1732 .1958 .2259 .2711 .3200 .3953 .5120

PHI	.000	1.4980	.9300	.4900	.0790	.0290	.1840	.0800	.0730	.0020	.0160	-.0300	-.0150
20.000	.5110	.1420	.0820	.2030	.0820	.2030	.0910	.0840	.0400	.0260	-.0150	-.0070	.0810
40.000	.6270	.1410	.2670	.2490	.2670	.2490	.1040	.2320	.2880	.0390	-.0500	.0100	.0720
55.000	.6710	.1590	.2810	.3990	.2810	.3990	.3670	.2970	.2910	.0210	-.0280	-.0090	.0410
70.000	.6870	.1600	.2200	.4310	.2200	.4310	.4920	.2370	.0030	-.0070	-.0110	.0020	
90.000	1.2250	.1970	.2080	.4520	.1970	.4520	.6670	.1390					
120.000	.6810	.2290	.2350	.4540	.2290	.4540	.9280						
142.000	.6480	.2420	.3060	.5870	.6480	.2420	1.1290						
150.000													
157.000													
165.000													
165.000													
169.000													
172.000													
180.000	1.4980	1.1200	.5070	.2580	.2810	.6570	1.1310	.9790	-.1030	.0420	.0280	.0010	-.0190
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392			

PHI	.000	-.0160	.0310	.1550	.0770	-.0020	-.0980	-.1860	-.1380	-.2110			
40.000	.0860	.0010	.0070	.0010	.0790	.0530	.0190	.0210					
70.000	.0950	.0170	.1310	.1030	.0880	.0290	.0130	.0130					
105.000	.0390	.0290	.4460	.2790	.0560	.0230	.0240	.0900					
120.000	.0220	.0380	.1770	.2430	-.0540	.1420	.2040						
150.000	.0270	.2090	.3790	.2500	.2720	.1100							
165.000	-.0520	-.0570	.0810										
180.000													

MACH (2) = 2.000 BETAT (3) = -4.230

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP
X/LB .0000 .0075 .0188 .0339 .0602 .1355 .1516 .1581 .1732 .1958 .2259 .2711 .3200 .3953 .5120

PHI	.000	1.4980	.9180	.4690	.0690	.0260	.1890	.0990	.0990	.0440	.0250	-.0350	.0160
20.000	.4780	.1260	.0750	.2120	.0750	.2120	.1140	.1140	.0610	.0230	-.0220	-.0040	.0430
40.000	.5670	.2130	.2540	.2540	.2130	.2540	.2680	.2680	.2100	.0200	-.0200	-.0020	.0480
55.000	.5940	.1330	.2420	.3540	.2420	.3540	.3320	.3320	.2500	.0080	-.0710	-.0200	.0480
70.000	.6130	.1710	.1710	.3700	.1710	.3700	.4620	.4620	.2560	.0430	-.0550	-.0370	.0220
90.000	1.1530	.1500	.1580	.4070	.1500	.4070	.5970	.5970	.2180	-.0150	-.0220	-.0320	-.0110
120.000	.6360	.2260	.2270	.3240	.2260	.3240							

AMES 97-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE

(RBO0018)

MACH (2) = 2.000 BETAT (3) = -4.230

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	PHI	0.0075	0.0188	0.0339	0.0602	0.1355	0.1506	0.1581	0.1732	0.1958	0.2259	0.2711	0.3200	0.3953	0.5120
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000															
X/LB	PHI	0.0075	0.0188	0.0339	0.0602	0.1355	0.1506	0.1581	0.1732	0.1958	0.2259	0.2711	0.3200	0.3953	0.5120
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000															

X/LB	PHI	0.0075	0.0188	0.0339	0.0602	0.1355	0.1506	0.1581	0.1732	0.1958	0.2259	0.2711	0.3200	0.3953	0.5120
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000															
X/LB	PHI	0.0075	0.0188	0.0339	0.0602	0.1355	0.1506	0.1581	0.1732	0.1958	0.2259	0.2711	0.3200	0.3953	0.5120
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000															

MACH (2) = 2.000 BETAT (4) = 3.920

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	PHI	0.0075	0.0188	0.0339	0.0602	0.1355	0.1506	0.1581	0.1732	0.1958	0.2259	0.2711	0.3200	0.3953	0.5120
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000															
X/LB	PHI	0.0075	0.0188	0.0339	0.0602	0.1355	0.1506	0.1581	0.1732	0.1958	0.2259	0.2711	0.3200	0.3953	0.5120
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000															

1.0370

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9B

AVES 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE

(RECORDED)

MACH (2) = 2.000 BETAT (5) = 5.950

SECTION (1) ORBITER FUSELAGE

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000	-.0280	-.0550	-.0620	-.0620	-.0440	-.0840	-.0720			
90.000	-.0410	-.0470	-.0100	-.0230	-.0440	-.0840	-.0940			
105.000			.0400	-.0300	-.0530	-.1110	-.0970			.0700
110.000										-.0510
120.000	-.0210	-.0220	.1790	-.0280	-.1820	-.1350	-.0810			
135.000			.6750	.3540	-.1490	-.1300	-.1190			
150.000	-.0700	-.0770	.0440	.3340	.0620	.0170	-.0010			
165.000	-.0760		.2220	.3580	.1070	.0360	-.0570			
180.000	-.0650	-.0650	.0580							

MACH (2) = 2.000 BETAT (6) = 8.010

SECTION (1) ORBITER FUSELAGE

X/LB	.0000	.0475	.0188	.0339	.0672	.1355	.1511	.1981	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.4700	.9060	.4230	.0610	.0370	.1540		.0590	.0330	-.0220	-.0510	-.0560	-.0560	-.0560	
20.000		.3840	.0450	-.0180	.1180		.0340	-.0140	-.0140	-.0230	-.0800	-.0610	-.0560		
40.000			.3390	.0460	-.0180	.1630		-.0140	.0370	-.0230	-.0800	-.0610	-.0560		
55.000			.2930	-.0090	-.1620	.0670		.0510	.1420	-.0230	-.0800	-.0610	-.0560		
70.000			.2560	-.0140	-.0790	.0810		.1460	.1460	-.0530	-.1260	-.1140	-.0110		
90.000	.7820		.2560	-.0890	-.0770	.0280		.0320	.0320	-.0760	-.1160	-.1100	-.0370		
120.000			.3310	.0130	.0130	-.0490		.0790	-.1410	-.2120	-.1310	-.0520	-.0770		
142.000			.4280	.1260	.1630	.3770		.4770	-.1740	-.1890	.0270	-.0960	-.0560		
150.000							.7290								
157.000								.6110							
162.000									-.2060	-.1540	-.1130	-.1610	-.1390		
165.000							.6990								
169.000															
172.000	1.4700	1.0190	.4690	.2470	.7890	.6760		.9230	-.1500	-.0980	-.0540	-.1590	-.1220		
180.000			.5873	.6626	.7380	.7969	.8283	.8848	.9262	.9639	1.0015	1.0392			

SECTION (1) ORBITER FUSELAGE

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
40.000	-.0360	-.0280	-.1170	-.1620	-.2070	-.2110	-.2120			-.1440
45.000	-.0770	-.0760	-.0650	-.0230	-.0490	-.0840	-.0790			-.1580
70.000		-.0760	-.0620	-.0170	-.0280	-.0610	-.1030			
90.000	-.0230	-.0540	.0270	-.0630	-.0690	-.1270	-.1050			
110.000							.0720			
120.000	-.0330	-.0330	.1750	-.0570	-.2070	-.1690	-.1080			
135.000			.3390	.3420	-.1380	-.1540	-.1370			
150.000	-.1550	-.1250	.0540	.1260	.0390	-.0310	-.0520			

AMES 97-757 1A9 C2A + S3 + T9 ORBITER FUSELAGE

(RECORD)

MACH (2) = 2.000 BETAT (6) = 8.010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .5873 .6826 .7380 .7869 .8283 .8848 .9262 .9639 1.0115 1.0392

PHI

185.000 -0.1120 .1070 .2230 .0060 -.0380 -.1130

180.000 -0.1540 -0.0590 -0.0360

AVES 97-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE

(RDCB09) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. YMRP = 28.5310 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHAT = -6.0000 ORBTINC = .5000
 RUDDER = .0000 ELEVON = .0000
 RUDFLR = .0000

MACH (1) = 1.555 BETAT (1) = -8.160

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI	.0000	1.4250	.9800	.4570	-.0830	.0980	-.0130	-.0760	-.0960	-.1010	.0410	.0540	-.0860		
20.0000		.5710	.0450	.1180	.0100			-.0510	-.0620						
40.0000		.7520	.1250	.3060	.0400			-.0780	-.0890	-.1350	.0510	.0080	.0570		
55.0000		.8210	.2630	.4420	.2660			.2390	.1790						
70.0000		.8220	.3110	.4610	.3240			.3600	.1900	-.0730	-.1290	.0940	.1100		
90.0000		1.2780	.7700	.3050	.4800	.3770		.4590	.1570	-.0930	-.1070	.0750	.0900		
120.0000		.6900	.3090	.4970	.6130			.6170	.2350	-.1160	-.0750	-.0410	.0560		
142.0000		.6170	.2360	.4560	.8940			.7980	-.0140	-.0630	.0000	-.0570	.0280		
150.0000							1.0440								
157.0000								.7170							
162.0000								.5660							
165.0000									-.1480	-.0090	-.0560	-.0430	.0340		
169.0000															
172.0000															
180.0000		1.4250	1.0060	.4270	.2180	.3500	.8800	.7890							
							1.1800								
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI	.0000	-.1460													
40.0000	.0000	.2950													
70.0000		-.0190	.0190	.1350	.1310	-.0680	-.2980								
90.0000		.0100	.0450	-.0060	.1220	.1080	.0490								
115.0000				.1790	.1040	.1040	.0410								
120.0000				.2570	.1830	.1030	.0200								
120.0000				.0310	.0170	.0180	.0110								
135.0000				.5370	.2250	.0180	.0610								
150.0000				.5220	.4120	-.0420	.0600								
150.0000				.0100	.0030	.0290	.2810								
165.0000				.0360	.3090	.4680	.3190								
180.0000		-.194	-.0040	.1420											

PHI

.0000

40.0000

70.0000

90.0000

115.0000

120.0000

135.0000

150.0000

165.0000

180.0000

DATE 24 SEP 73 TABULATED PRESSURE DATA - 1A98

AMES 97-707 IA9 CZA + S3 + T9 ORBITER FUSELAGE (RBC0809)

MACH (2) = 2.1100 BETAT (2) = -6.3000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	PHI	.0000	.0075	.0189	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI	.0000	.4800	.0950	.0375	.1830	.0880	.1010	.0880	.0730	.0040	.0310	-.0020	.0320	.0820	.1110	.0870
20.000	.5200	.1450	.0820	.2080	.1130	.0580	.0210	.0580	.0210	-.0060	.1110	.0320	.0320	.0320	.0320	.0320
40.000	.6340	.1440	.2630	.3210	.2590	.3070	.0520	.0390	.0320	.0320	.0320	.0320	.0320	.0320	.0320	.0320
55.000	.6780	.1720	.3080	.4170	.4030	.3040	.0360	.0090	.0320	.0320	.0320	.0320	.0320	.0320	.0320	.0320
70.000	.7080	.1820	.2470	.4530	.5430	.2670	.0230	.0180	.0320	.0320	.0320	.0320	.0320	.0320	.0320	.0320
90.000	.7580	.2200	.2260	.4750	.6920	.0990	.0080	.0020	.0320	.0320	.0320	.0320	.0320	.0320	.0320	.0320
120.000	.7280	.2910	.2970	.4670	.9760	.0990	.0080	.0020	.0320	.0320	.0320	.0320	.0320	.0320	.0320	.0320
142.000	.7100	.2930	.3610	.6760	.9030	.0990	.0080	.0020	.0320	.0320	.0320	.0320	.0320	.0320	.0320	.0320
150.000	.7100	.2930	.3610	.6760	.9030	.0990	.0080	.0020	.0320	.0320	.0320	.0320	.0320	.0320	.0320	.0320
157.000	.7100	.2930	.3610	.6760	.9030	.0990	.0080	.0020	.0320	.0320	.0320	.0320	.0320	.0320	.0320	.0320
162.000	.7100	.2930	.3610	.6760	.9030	.0990	.0080	.0020	.0320	.0320	.0320	.0320	.0320	.0320	.0320	.0320
165.000	.7100	.2930	.3610	.6760	.9030	.0990	.0080	.0020	.0320	.0320	.0320	.0320	.0320	.0320	.0320	.0320
169.000	.7100	.2930	.3610	.6760	.9030	.0990	.0080	.0020	.0320	.0320	.0320	.0320	.0320	.0320	.0320	.0320
172.000	.7100	.2930	.3610	.6760	.9030	.0990	.0080	.0020	.0320	.0320	.0320	.0320	.0320	.0320	.0320	.0320
180.000	1.1800	.5680	.3140	.3340	.7470	1.2440	1.0310	-.1340	-.0900	-.0070	-.0770	-.0770	-.0770	-.0770	-.0770	-.0770
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392						

MACH (2) = 2.0000 BETAT (3) = -4.2500

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	PHI	.0000	.0075	.0189	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI	.0000	.0410	.0160	.0280	.1160	.0540	-.0020	-.1280	-.1810	-.1420	-.2140					
20.000	.0740	.0310	.0170	.0870	.1160	.0540	-.0020	-.1280	-.1810	-.1420	-.2140					
40.000	.0570	.0280	.0140	.1170	.1410	.1170	.1250	.0670	.0380	.0380	.0380	.0380	.0380	.0380	.0380	.0380
55.000	.0570	.0280	.0140	.1170	.1410	.1170	.1250	.0670	.0380	.0380	.0380	.0380	.0380	.0380	.0380	.0380
70.000	.0640	.0480	.0480	.2830	.4880	.2830	.0810	.0560	.0490	.0490	.0490	.0490	.0490	.0490	.0490	.0490
90.000	.0470	.0600	.2160	.2960	.4220	.4660	.0220	.0380	.1430	.1430	.1430	.1430	.1430	.1430	.1430	.1430
120.000	.0480	.2420	.2420	.4400	.2950	.3200	.1350									
142.000	-.0340	-.0360	.1130													
X/LB	.0000	.0075	.0189	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120	

MACH (2) = 2.0000 BETAT (3) = -4.2500

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	PHI	.0000	.0075	.0189	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI	.0000	.4980	.0700	.0150	.1940	.0930	.1020	.0880	.0730	.0040	.0310	-.0020	.0320	.0820	.1110	.0870
20.000	.5120	.1130	.0480	.2180	.1190	.0580	.0210	.0580	.0210	-.0060	.1110	.0320	.0320	.0320	.0320	.0320
40.000	.5920	.1140	.2000	.2600	.2870	.2870	.0360	.0360	.0360	.0360	.0360	.0360	.0360	.0360	.0360	.0360
55.000	.6170	.1250	.2470	.3700	.3630	.3630	.0260	.0260	.0260	.0260	.0260	.0260	.0260	.0260	.0260	.0260
70.000	.6380	.1230	.1880	.3990	.4960	.4960	.0120	.0120	.0120	.0120	.0120	.0120	.0120	.0120	.0120	.0120
90.000	.6430	.1710	.1760	.4220	.6320	.6320	.0010	.0010	.0010	.0010	.0010	.0010	.0010	.0010	.0010	.0010
120.000	.6790	.2380	.2720	.3470												
X/LB	.0000	.0075	.0189	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120	

TABULATED PRESSURE DATA - 1A99

(R00009)

AMES 97-707 IAG OEA + S3 + T9 ORBITER FUSELAGE

DATE 20 SEP 75

MACH (2) = 2.000 BETAT (3) = -4.250
 SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	PHI	0.000	.0075	.0166	.0339	.0602	.1355	.1596	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
142.000	.6870	.2850	.3540	.6790	1.1220	.9160	.0770	.0710	-.0140	.0000	.0160	-.0030				
150.000																
157.000																
162.000																
165.000																
169.000																
172.000																
180.000	1.5560	1.1890	.5760	.3160	.3520	.7080	1.1560	1.0420	-.1360	-.5840	-.0060	-.0260	-.0100			

X/LB PHI

X/LB	PHI	0.000	.0330	.0640	.0030	-.0700	-.1940	-.2110	-.1260	-.1190
40.000	.0560	.0120	.0290	.0040	.0860	.0200	.0110	.0380		
70.000	.0270	.0290	.0290	.0040	.0860	.0200	.0110	.0380		
90.000	.0500	.0300	.1230	.0890	.0600	-.0050	.0120	.0910		
105.000	.2030	.1700	.0600	-.0200	-.0120	.0910	.0770			
110.000	.4100	.2640	.0150	-.0280	.0310					
120.000	.5620	.4610	-.0150	.0100	.1440					
135.000	.2480	.3540	.0000	.1610	.2230					
150.000	.0599	.2620	.4670	.2610	.0960					
165.000	.0560	.2620	.4670	.2610	.0960					
180.000	.0130	.0080	.1910							

MACH (2) = 2.000 BETAT (4) = 3.930
 SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	PHI	0.000	.0075	.0166	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
142.000	.9270	.3840	-.0130	-.0090	.1440	.1910	-.0900	-.1170	-.1340	.0000	.0210	.0260	.0360			
150.000	.4610	.1020	.1010	.0980	.6580											
157.000	.5460	.2050	.2480	.4110	.8960											
162.000																
165.000																
169.000																
172.000																
180.000	1.5560	1.1890	.5760	.3160	.3520	.7080	1.1560	1.0420	-.1360	-.5840	-.0060	-.0260	-.0100			

X/LB PHI

DATE 21 SEP 73

TABLATED PRESSURE DATA - 1A9B

(RBC0819)

AVCS 97-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE

BETAT (4) = 3.930

MACH (2) = 2.1000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI	1.5330	1.1630	.5570	.3040	.3410	.7090		1.0180							
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI	.0410														
X/LB	.0000	.0030	.0060	.0090	.0120	.0150	.0180	.0210	.0240	.0270	.0300	.0330	.0360	.0390	.0420
PHI	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
X/LB	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
PHI	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
X/LB	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
PHI	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000

BETAT (5) = 8.020

MACH (2) = 2.1000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0612	.1355	.1516	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI	.0000	.0075	.0188	.0339	.0612	.1355	.1516	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI	.0410														
X/LB	.0000	.0030	.0060	.0090	.0120	.0150	.0180	.0210	.0240	.0270	.0300	.0330	.0360	.0390	.0420
PHI	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
X/LB	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
PHI	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
X/LB	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
PHI	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000

PHI

.0000

.0000

.0000

AMES 97-707 1A9 OEA + S3 + T9 ORBITER FUSELAGE

(RBC019)

MACH (2) = 2.000 SETAT (5) = 8.020

SECTION (1) ORBITER FUSELAGE	DEPENDENT VARIABLE CP									
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392

PHI										
70.000	-.0050	-.0330	-.0330	.0120	.0260	-.0330	-.0540			
80.000	.0030	-.0280	.0490	.0120	-.0120	-.0590	-.0740			
100.000		.0520	-.0410	-.0120	-.0770	-.0770				
110.000										.0150
120.000	-.0010	.0000	.2070	-.0430	-.1790	-.1260	-.0680	-.0650		
130.000			.4650	.3480	-.0820	-.1040	-.1130			
150.000	-.1460	-.0460	.1400	.1660	.1070	.0430	-.0290			
160.000	-.0920		.1020	.2440	.0630	.0160	-.1680			
180.000	-.1450	-.0450	-.0580							

(R09011) (24 MAY 73)

TABULATED PRESSURE DATA - 1A00

AMES 97-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PACH (1) = 1.555 BETAT (1) = -8.200

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUZFLR = .000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/LB	.0000	.0075	.0188	.0339	.0602	.1055	.1516	.1581	.1732	.1958	.2711	.3210	.3953	.5120
PHI	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
20.000	1.4421	.9720	.4570	-.0590	.1250	-.0170	-.0695	-.0470	-.0300	-.0420	-.0780	.0460	.1450	.0580
40.000	.5730	.0710	.1610	.0110	.0380	.0380	-.0550	-.0170	.0230	.0170	.0230	.0460	.0460	.0480
60.000	.7510	.1510	.3370	.0380	.2790	.2790	.2660	.1870	.2660	.2070	-.0550	-.0550	.1170	.1320
80.000	.8260	.2680	.4760	.2790	.3520	.3520	.3850	.2070	.3850	.2670	-.0770	-.0910	.0990	.1170
100.000	.8370	.3160	.4990	.3520	.4470	.4470	.4770	.2070	.4770	.2670	-.0770	-.0470	.0990	.1870
120.000	.7900	.3220	.5280	.4470	.6410	.6410	.6410	.0670	.6410	.0670	-.0160	.0220	-.0190	.0560
140.000	.7360	.3180	.5500	.6670	.8260	.8260	.8260	.0180	.8260	.0180	-.0160	.0220	-.0190	.0560
160.000	.6690	.2970	.5180	.9420	1.0670	1.0670	1.0670	.7510	1.0670	.7510	-.0320	.0190	-.0290	.0590
180.000	.4790	.2940	.4170	.9480	1.2040	1.2040	.6110	.8340	1.2040	.6110	-.0320	.0190	-.0290	.0590
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392	-.2970	-.1410	-.0860	-.0470
PHI	-.1540	.2930	.0580	.1240	.0680	-.0760	-.3010	.0840	.0840	.0840	-.1360	-.1920		
40.000	-.0790	.0080	.0980	.0510	.1780	.1380	.0790	.0840	.0840	.0840				
70.000	.0390	.0800	.2120	.1350	.1430	.0680	.0590	.0590	.0590	.0590				
90.000	.0650	.0930	.2870	.2050	.1440	.0500	.0380	.0380	.0380	.0380				
110.000	.0650	.0530	.2470	.0340	.0460	.1280	.1140	.1140	.1140	.1140				
120.000	.0430	.0320	.1610	-.0030	.1610	.2650	.2650	.2650	.2650	.2650				
130.000	.0570	.0320	.3260	.1130	.3360	.3090	.3090	.3090	.3090	.3090				
140.000	.0570	.0370	.3670	.3750	.4100	.4100	.4100	.4100	.4100	.4100				
150.000	-.1510	.0270	.1680	.1780	.1780	.1780	.1780	.1780	.1780	.1780				

DATE 08 SEP 73 TABULATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 OSA + S3 + T9 ORBITER FUSELAGE (RB00810)

MACH (1) = 1.555 BETAT (2) = -6.210

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	PHI	.0075	.0186	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3210	.3953	.5120
.000	1.4650	.9790	.4580	-.0730	.1140	.0110			-.0220	.1450	.1870	.0400			-.1120
20.000			.5460	.0360	.1440	.0170			-.0090						-.0120
40.000			.6930	.1040	.3020	.0390			-.0600	-.0050	.0330	.0660			.0120
55.000			.7490	.1930	.4090	.2560			.2410	.1580					.1220
70.000			.7510	.2380	.4230	.3290			.7510	.1560	-.0870	.0740			.1220
90.000	1.2400		.7150	.2450	.4210	.4310			.4440	.1230	-.1010	.0580			.1140
120.000			.6900	.2560	.4720	.6540			.5880	.1400	-.1240	-.0130			.0780
142.000			.6920	.2730	.4730	.9490			.8140	.0010	-.0460	.0020			.0510
150.000							1.0670								
157.000									.7390						
162.000															
165.000									.6320						
169.000															
172.000							1.2280								
180.000	1.4650	1.0800	.4960	.2810	.4020	1.0140			.8570	-.2820	-.0930	-.0710	-.0650	-.0280	

MACH (1) = 1.555 BETAT (3) = -4.220

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	PHI	.0075	.0186	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3210	.3953	.5120
.000	-1.1660								-.1430						-.1100
40.000	-.0440	.1970	.0680	-.0250	-.1080	-.3150				-.1210					
70.000		.0270	.0430	.0440	.1480	.1110	.0550		.0440						
90.000		.0300	.0620	.1820	.1100	.1030	.0450		.0240						
105.000			.2660	.2660	.1660	.1010	.0170	.0260							
110.000		.0580	.0560	.5510	.2030	-.0160	.0130	.0860	.0690						
120.000			.6330	.6330	.4540	-.0200	.1220	.2190	.0640						
135.000		.0500	.0910	.2890	.3700	.0670	.2900	.2630							
150.000		.0570	.3510	.3510	.5310	.3340	.3640	.0890							
160.000		-.0670	-.0120	.1790											

MACH (1) = 1.555 BETAT (3) = -4.220

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	PHI	.0075	.0186	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3210	.3953	.5120
.000	1.4900	1.0030	.4690	-.0810	.0920	.0070			.0900	.1680	.1640	.0100			-.1110
20.000			.5260	.0130	.1150	.0150			.0300	.0180					-.0270
40.000			.6330	.0430	.2480	.0430			-.0390	-.0550	.0030	.0280			.0330
55.000			.6760	.0870	.3220	.2350			.1320	.1320					.0940
70.000			.6710	.1340	.3290	.3110			.1150	.1150	-.1090	-.1330			.0940
90.000	1.1820		.6350	.1660	.3210	.4150			.0950	.0950	-.1310	-.1460			.0940
120.000			.6340	.1890	.3930	.3740			.1180	.1180	-.1500	-.1000			.0940

AMES 97-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE (R80810)

MACH (2) = 2.000 BETAT (2) = -6.330

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
20.000	1.6030	.9660	.4610	.0630	.1000	.1780			.1140	.0780	.0120	.0160	.0500	.0520	
40.000			.3240	.1350	.1480	.2160			.1250	.1030					
60.000			.6630	.1340	.3420	.2680			.1190	.0920	.0250	-.0070	.1060	.0950	
80.000			.7150	.1760	.4030	.4450			.3460	.2910					
100.000			.7540	.1930	.3020	.4970			.4540	.3330	.0740	-.0180	.0590	.1510	
120.000			1.3270	.2560	.2720	.5170			.5940	.3260	.0540	.0200	.0380	.1280	
140.000			.7940	.3320	.3610	.5710			.7570	.3540	.0460	.0520	.0510	.0650	
160.000			.7790	.3500	.4300	.8400			1.0380	.1410	.0460	.0000	.0510	.0450	
180.000							1.2930		.9630						
200.000									.8450						
220.000															
240.000															
260.000															
280.000															
300.000															
320.000															
340.000															
360.000															
380.000															
400.000															
420.000															
440.000															
460.000															
480.000															
500.000															
520.000															
540.000															
560.000															
580.000															
600.000															
620.000															
640.000															
660.000															
680.000															
700.000															
720.000															
740.000															
760.000															
780.000															
800.000															
820.000															
840.000															
860.000															
880.000															
900.000															
920.000															
940.000															
960.000															
980.000															
1000.000															

MACH (2) = 2.000 BETAT (3) = -4.280

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
20.000	1.6150	.9970	.5150	.0660	.0900	.1950			.1050	.0720	.0890	.0780	.0470		
40.000			.5520	.1260	.0640	.2190			.1190	.1240					
60.000			.6350	.1160	.2270	.2640			.1240	.0990	.0360	-.0050	.1060	.0790	
80.000			.6680	.1600	.2870	.4010			.3140	.2510					
100.000			.6850	.1610	.2380	.4380			.4200	.2970	.0400	-.0460	.0300	.1170	
120.000			1.2560	.2040	.2200	.4520			.5480	.2830	.0300	-.0150	.0010	.1040	
140.000			.7430	.2790	.3270	.4260			.6760	.2650	.0200	.0280	.0230	.0420	

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TABLATED PRESSURE DATA - 1A9B

(R00810)

AMES 97-707 1A9 ORA + S3 + T9 ORBITER FUSELAGE

BETAT (3) = -4.280

MACH (2) = 2.000

DEPENDENT VARIABLE CP

SECTION (1) ORBITER FUSELAGE

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000									.9870	.1020	.1050	.0170	.0600	.0510	.0690
150.000							1.2230								
157.000									.9190						
162.000															
165.000									.8550						
169.000															
172.000									1.0990						
180.000	1.6150	1.2590	60	.3720	.4180	.8160	1.2870								
X/LB	.5873	.6626	.7390	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					

-.1340

-.1220

-.1870

-.1590

.0610

.0670

.0610

.0670

.0610

.0670

.0610

.0670

.0610

.0670

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.0670

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.0670

.0610

.0670

.0610

.0670

BETAT (4) = -.170

MACH (2) = 2.000

DEPENDENT VARIABLE CP

SECTION (1) ORBITER FUSELAGE

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
20.000									.1230	.1960	.1840	.0920	.0900	.1390	.0380
40.000									.0860	.1180	.1130	.0860	.0690	.0550	.0510
55.000									.2530	.2410	.2120	.0980	.0680	.0650	.0640
70.000									.3590	.2270	.2410	.0980	.0680	.0650	.0640
90.000									.4730	.1950	.2270	.0980	.0680	.0650	.0640
120.000									.3190	-.0320	.1950	-.0260	-.0110	.0020	.0170
142.000									.8300	-.0320	-.0420	-.0370	.0000	.0450	.0380
150.000															
157.000									.7980						
162.000															
165.000															
169.000															
172.000															

1.3150

AMES 97-707 IAS O2A + S3 + T9 ORBITER FUSELAGE

(RECEIVED)

MACH (2) = 2.000 BETAT (5) = 3.940

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000	.0293	-.0060	-.0010	.0520	.0320	.0320	-.0050	-.0200		
90.000	.0460	.0040	.0720	.0380	.0300	-.0270	-.0430	-.0430		
105.000		.0960	.0280	.0290	-.0430	-.0470				
115.000						.0700				
120.000	.0370	.0900	.2330	.0300	-.0970	-.0540	-.0180	.0620		
135.000		.7560	.4290	-.0900	-.0480	-.0460				
150.000	.0120	.0310	.2890	.5910	.1750	.1170	.0770			
165.000	-.0160	-.2730	.6180	.2520	.1680	.0160				
180.000	-.0340	.0320	.1500							

MACH (2) = 2.000 BETAT (6) = 5.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1956	.1581	.1732	.1958	.2259	.2711	.3210	.3953	.5120
PHI															
.000	1.5730	.9530	.4660	.0650	.0210	.1820			.1050	.0840	.0220	.0630	.0470	.0440	
20.000		.4090	.0390	.0080	.1900				.0940		.0570				
40.000		.3890	.0080	.0080	.1210				.0550		.0560	.0470	-.0020	-.0160	
55.000		.3530	.0150	-.0090	.1560				.0990		.2740				
70.000		.3330	-.0200	-.0350	.1380				.1830		.1980	-.0290	-.0980	-.0410	.0580
90.000	.9070	.3560	-.0330	-.0330	.0880				.2100		.0520	-.0430	-.0830	-.0710	.0340
120.000		.4540	.0950	.0980	.0690				.0870		-.0920	-.1890	-.0910	-.0150	-.0330
150.000		.5840	.2310	.2740	.5460				.6270		-.1250	-.1350	.0000	-.0410	.0320
162.000					.9280										
165.000									.7060						
169.000									.8020						
172.000															
180.000	1.5730	1.2480	.6120	.3560	.3990	.8120	1.2120		1.0520						

MACH (2) = 2.000 BETAT (6) = 5.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	.0110									
40.000	-.0020	-.0380	-.1490	-.1940	-.1820	-.1960				-.1410
70.000	.0240	-.0110	-.0080	.0450	.0280	-.0490	-.0290			-.1570
90.000	.0370	-.0010	.0670	.0400	.0140	-.0390	-.0490			
105.000		.0820	.0700	.0150	-.0320	-.0530				
110.000										
120.000	.0290	.0220	.2140	-.0020	-.1480	-.0910	-.0500	-.0230		
135.000		.7910	.4110	-.0800	-.0910	-.0850				
150.000	-.0450	-.0310	.1220	.4220	.1650	.0920	.0520			

AMES 97-707 IAS OEA + S3 + T9 ORBITER FUSELAGE

(RBC811)

MACH (1) = 1.555 BETAT (5) = 3.945

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
75.000	-.0280	-.0170	.0170	.0170	.0810	.0150	-.0510	-.0530		
90.000	-.0360	-.0180	.0870	.0260	-.0220	-.0780	-.0560			
105.000		.0770	-.0120	-.0220	-.1000	-.0630				
110.000						.0040				
120.000	.0150	-.0230	.1870	-.0120	-.2080	-.1270	-.0990	-.0060		
135.000		.7900	.3490	-.1420	-.1350	-.1430				
150.000	.0320	.0320	.3190	.5670	.1900	.0470	-.0020			
165.000	-.0110	.3340	.5870	.2010	.1000	T.1180				
180.000	.0260	.0230	.2860							

MACH (1) = 1.555 BETAT (6) = 6.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0612	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3270	.3953	.5120
PHI															
0.000	1.4690	.9830	.4540	-.0750	.1080	.0130			-.0200	.1580	.1930	.0280	-.1180		
20.000		.3760	-.0960	-.0740	-.0010				.0180	-.0260					
40.000		.3370	-.0970	-.0280	.0360				.0920	.0310	.0350	-.0600	-.1300		
55.000		.2940	-.1090	-.0760	.1350				.1990	.0560					
70.000		.2600	-.1380	-.1220	.1990				.0210	-.2120	-.2240	-.0740	.0410		
90.000	.8240	.2630	-.1480	-.0980	.2980				.2550	-.0450	-.2490	-.0740	.0280		
120.000		.3360	-.0290	.0540	.2940				.1940	-.0860	-.2570	-.1860	-.1450	-.0500	
142.000		.4480	.1430	.2530	.6500				.4750	-.2690	T.1960	.0700	-.0670	-.0670	
150.000									.6640						
162.000									.4670						
165.000									.5860						
169.000															
172.000															
180.000	1.4690	1.0900	.4950	.2980	.4090	.9980	1.0630		.8240	-.2530	-.1110	-.0920	-.0720	-.0980	

MACH (1) = 1.555 BETAT (6) = 6.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
0.000	-.1720									
40.000	-.1390	-.0180	-.1050	-.1300	-.2250	-.2250	-.1620			
70.000	-.0340	.0170	.0970	.1580	.0580	-.0080	-.0240			
90.000	-.0160	.0100	.1480	.0230	-.0330	-.0190				
105.000		.1570	.0260	.0270	-.0450	-.0150				
110.000						.0140				
120.000	.0020	-.0330	.2820	-.0330	-.2040	-.0870	-.0690			
135.000	.7780	.4210	-.1240	-.1260	-.1390					
150.000	-.0320	-.0540	.1780	.4040	.1940	.0840	.0120			

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TABLATED PRESSURE DATA - 1A98

(RBC0811)

AMES 97-707 1A9 O2A + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.000 BETAT (1) = -8.390

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	PHI	.0000	.0075	.0180	.0339	.0602	.1355	.1906	.1981	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI																
20.000	1.9380	.9290	.4260	.0590	.0980	.1770			.0940	.1220	.0670	.0620	.0535	.0240	.0240	-.0000
40.000			.5040	.1410	.1670	.2110			.1140	.1140	.0990	.0550	.0550	.0510	.1330	.1240
60.000			.6680	.1540	.3960	.2540			.3580	.3580	.3390	.3510	.3170	.0510	.0980	.1900
80.000			.7370	.1990	.4880	.4610			.4680	.4680	.3510	.3570	.0750	.0510	.0790	.1660
100.000			.7820	.2240	.3610	.5070			.6260	.6260	.3240	.3240	.0690	.0690	.0750	.1820
120.000	1.3450		.8020	.2910	.5320			.2310			.1510	.1510	.0630	.0630	.0630	.1120
140.000			.8210	.3450	.5570			1.0630								
160.000			.7860	.3660	.4520	.6560		1.3050		.9630	-.0220	.1350	.1120	.0790	.0790	.1890
180.000									.8360							
200.000	1.5580	1.2110	.6070	.3490	.3950	.8610	1.2630		1.0690		-.1160	-.0220	-.0220	-.0220	-.0220	-.0220
220.000	.5873	.6626	.7385	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392						

SECTION (2) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	PHI	.0000	.0075	.0180	.0339	.0602	.1355	.1906	.1981	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI																
20.000	1.5810	.9560	.5010	.0630	.0590	.1820			.1020	.1160	.0700	.0740	.0740	.0590	.0590	.0490
40.000			.5480	.1470	.1020	.2140			.1160	.1200	.0800	.0800	.0250	.0250	.0250	.0250
60.000			.6650	.1430	.2950	.2650			.2910	.2910	.2910	.2910	.0250	.0250	.0250	.0250
80.000			.7070	.1830	.3480	.4430			.3330	.3330	.3330	.3330	.0250	.0250	.0250	.0250
100.000			.7360	.1990	.2820	.4870			.3260	.3260	.3260	.3260	.0250	.0250	.0250	.0250
120.000	1.3010		.7480	.2470	.2610	.5020			.3150	.3150	.3150	.3150	.0250	.0250	.0250	.0250
140.000			.7820	.3190	.3500	.5420			.3730							

MACH (2) = 2.000 BETAT (2) = -6.340

AVES 97-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE

(RDCS:1)

MACH (2) = 2.000 BETAT (2) = -6.340

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0020	.0075	.0188	.0339	.0672	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000															
151.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000	1.5810	1.2430	.6230	.3450	.3990	.8470	1.3350		1.0850						
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9637	1.0015	1.0392					

SECTION (2) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0020	.0075	.0188	.0339	.0672	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000															
151.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000	1.5810	1.2430	.6230	.3450	.3990	.8470	1.3350		1.0850						
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9637	1.0015	1.0392					

MACH (2) = 2.000 BETAT (3) = -4.290

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0020	.0075	.0188	.0339	.0672	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000															
151.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000	1.5810	1.2430	.6230	.3450	.3990	.8470	1.3350		1.0850						
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9637	1.0015	1.0392					

SECTION (2) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0020	.0075	.0188	.0339	.0672	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000															
151.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000	1.5810	1.2430	.6230	.3450	.3990	.8470	1.3350		1.0850						
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9637	1.0015	1.0392					

(RBC811)

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.020 BETAT (3) = -4.290

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0520	.2075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.5980	1.2530	.6240	.3680	.4130	.8050		1.0970							.0330
X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					

PHI	.0070	.0750	.0160	.0890	.0170	-.0510	-.1680	-.1170	-.1250	-.1280
40.000										
70.000	.0620	.0360	.0220	.0970	.0970	.0680	.0510			
90.000	.0850	.0420	.1510	.1120	.0490	.0320	.0320			
105.000			.2310	.1970	.1130	.0270	.0260			
110.000							.0940			
120.000	.0930	.0740	.4370	.2510	.0480	.0410	.0480			
135.000			.6310	.4890	.0450	.0700	.1760			
150.000	.0680	.0810	.2970	.2970	.0650	.2290	.2570			
165.000	.0870	.0360	.3060	.3300	.3240	.1220				
180.000	.0350	.0340	.2280							

MACH (2) = 2.020 BETAT (4) = -.180

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0200	.2075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
20.000	1.6160	.9780	.5110	.0540	.0640	.1720		.1200							.0450
40.000			.5230	.0920	.0370	.2110		.0920							.0590
55.000			.5330	.0920	.1240	.2360		.1260							.0610
70.000			.5310	.0980	.1620	.3470		.2560							.0710
90.000	1.1150		.5340	.0980	.1120	.3520		.3590							.0730
120.000			.5540	.1020	.1030	.2320		.4780							.0250
142.000			.6230	.2130	.2220	.2360		.3460							.0460
150.000			.6810	.2930	.3580	.6720		.8380							.0470
157.000							1.0930								
162.000								.8010							.0530
165.000								.8280							
169.000															
172.000															
180.000	1.6060	1.2690	.6310	.3720	.4170	.8030		1.0000							.0220

X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000										
40.000	.0190	.0380	-.0120	-.0260	-.0840	-.1220	-.2040	-.1160	-.1120	-.1220

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9B

AMES 97-707 IA9 OGA + S3 + T9 ORBITER FUSELAGE

(RBOB11)

MACH (2) = 2.020 BETAT (5) = 3.930

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5875	.6826	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0110		.2680	.6350	.2620	.1710	.0190		
180.000		.0340	.0080	.1520						

MACH (2) = 2.020 BETAT (6) = 5.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0720	.0075	.0188	.0339	.0652	.1355	.1516	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
165.000	1.5820	.9630	.4730	.0540	.0270	.1860			.1110	.0900	.0230	.0740	.0580	.0520	
20.000			.4320	.0470	.0180	.1520			.0970	.0730	.0570	.0560	.0440	-.0070	
40.000			.4010	.0460	.0110	.1270			.1080	.2080	-.0300	-.1010	-.0360	.0610	
55.000			.3680	.0280	.0060	.1640			.1910	.2000	-.0440	-.0860	-.0670	.0380	
70.000			.3480	-.0040	-.0280	.1440			.2220	.0670	-.0440	-.0790	-.0130	-.0270	
90.000	.9220		.3680	-.0240	-.0280	.0590			.0980	-.0870	-.1850	-.0700	-.0330	.0370	
120.000			.4660	.1520	.1060	.0750			.6290	-.1250	-.1320	.0000	-.0330	.0370	
142.000			.5740	.2370	.2790	.5930		.9360	.7120						
150.000									.8790						
162.000															
165.000															
169.000															
172.000															
180.000	1.5820	1.2330	.6170	.3640	.4030	.8220	1.2260		1.0580						

MACH (2) = 2.020 BETAT (6) = 5.980

X/LB	.5875	.6826	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		.0110								
180.000		-.0300								
40.000										
70.000		.0270	-.0380	.0410	.0270	-.0090	-.0370	-.0490		
90.000		.0380	.0000	.0670	.0390	.0150	-.0370	-.0490		
105.000				.0850	-.0020	.0150	-.0510	-.0530		
110.000										
120.000		.0310	.0240	.2150	-.0020	-.1590	-.0890	-.0490		
135.000				.7790	.4140	-.0790	-.0910	-.0840		
150.000		-.0360	-.0490	.1160	.4520	.1710	.0940	.0520		
165.000		-.0490	.2630	.4520	.1680	.1260	-.0110			
180.000		-.0110	-.0200	.1340						

TABULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 ORA + S3 + T9 ORBITER FUSELAGE
 (RBCB11)

DATE 20 SEP 78

BETAT (7) = 2.040

MACH (2) = 2.110

SECTION (1) ORBITER FUSELAGE	DEPENDENT VARIABLE CP														
X/LB	.0000	.0075	.0100	.0339	.0602	.1355	.1596	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PW1		.4450	.0540	.0900	.1650				.0770	.0530	.0060	.0040	.0010	-.0060	.0410
21.000	1.5680	.3610	.3990	.0480	.1160				.0530	.0250	.0790	.0160	.0060	-.0170	1.1410
40.000		.3490	.0280	-.0170	.0740				.0920	.1810	.1140	-.0390	-.1060	-.0520	.0580
55.000		.3070	.0020	-.0330	.1310				.1020	.1810	.0320	-.1130	-.0920	-.0420	.0200
70.000		.2660	-.0350	-.0620	.1320				.1780	.1480	.0310	-.2140	-.1570	-.0350	-.0440
90.000		.0470	.3040	-.0470	-.0620	-.0120			.0480	-.1280	-.1430	-.1500	.0000	-.0570	-.1490
120.000		.4080	.0270	.0680	.0350				.5570						
142.000		.5310	.1960	.2450	.5050		.8620		.6920						
150.000									.7960						
157.000									1.0360						
162.000															
165.000															
169.000															
172.000															
181.000	1.5690	1.2250	.3260	.3390	.3950	.6580	1.1630		1.0360						
X/LB	.5075	.6626	.7380	.7069	.8283	.8028	.9262	.9639	1.0015	1.0392					
PW1															
40.000	.0260														
40.000	-.0540														
70.000		.0180	-.0430	-.0130	.0340	.0180	-.0220	-.0430							
90.000		.0250	-.0150	.0720	.0250	-.0120	-.0480	-.0560							
115.000				.0750	-.0280	.0220	-.0650	-.0620							
115.000				.0210	-.0260	-.0260	-.0320	-.0960							
120.000				.5110	.0240	-.0840	-.0100	-.0190							
135.000				-.0330	.0220	.1380	.0640	.0110							
140.000				-.0910	.1330	.0910	.0350	-.0760							
165.000				-.0190	-.0620	.0280									

-.1190
 -.1680

(R80912)

CALCULATED FREQUENCY DATA - 1402

AVES 37-710 1A0 00A + S3 + T9 CRIBITER FUSELAGE

SECT (4) = 1.170

SECTION (1) CRIBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	PHI	1.4420	1.0120	0.4120	0.9920	0.8280	0.9262	1.0015	1.0392	0.958	0.2259	0.2711	0.3270	0.3953	0.5120
1.4420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.4420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.4420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.4420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.4420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.4420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.4420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.4420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.4420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.4420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

SECT (5) = 3.930

SECTION (1) CRIBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	PHI	1.4420	1.0120	0.4120	0.9920	0.8280	0.9262	1.0015	1.0392	0.958	0.2259	0.2711	0.3270	0.3953	0.5120
1.4420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.4420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.4420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.4420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.4420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.4420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.4420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.4420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.4420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.4420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.4420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

PHI

PHI

DATE 20 SEP 73

TABLATED PRESSURE DATA - IA9B
AMES 97-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE

(RB0812)

MACH (1) = 1.555 BETAT (5) = 5.930

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5973	.6626	.7360	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392
PHI										
70.000	-.0700	-.0670	-.0420	.0180	-.0350	-.0710	-.0090			
90.000	-.0430	-.0550	.0360	-.0280	-.0610	-.1130	.0280			
105.000			.0560	-.0270	-.0620	-.1390	-.0100			
110.000							-.0010			
120.000	-.0140	-.0460	.1140	-.0260	-.2100	-.1510	-.0270	-.0090		
135.000			.7230	.3230	-.1460	-.1360	-.1380			
150.000	-.0100	-.0070	.2740	.4370	.0660	.0120	-.0480			
165.000	-.0570		.3460	.5250	.1460	.0520	-.1380			
180.000	-.0480	-.0270	.1950							

MACH (1) = 1.555 BETAT (6) = 5.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0375	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2711	.3200	.3953	.5120
PHI														
0.000	1.4220	.9920	.4620	-.0760	.1250	.0150			-.0320		-.0780	-.0820	.0380	-.0980
25.000			.4020	-.0890	.0120	.0180			-.0160		-.0820	-.0610	.0380	-.0980
40.000			.3570	-.0940	-.0310	.0230			.0270		-.0510	-.0610	-.0920	-.1370
55.000			.3150	-.1090	-.0710	.0580			.1540		.0260			
70.000			.2620	-.1250	-.1150	.1550			.2250		.0150	-.2340	-.2370	-.0380
90.000	.7940		.2380	-.1630	-.1110	.2170			.2510		-.0370	-.2480	-.2820	-.1440
105.000			.2830	-.1680	-.0050	.3570			.2050		-.0990	-.2820	-.2210	-.1740
120.000									-.2940		-.2940	-.2300	.0000	-.1110
142.000			.3660	.0570	.1620	.5820			.4680		-.2940	-.2300	.0000	-.1110
150.000									.6370					
162.000									.4200					
165.000									.5250					
169.000														
172.000														
180.000	1.4220	.9960	.3950	.1890	.3020	.6940	1.0000		.7500		-.3120	-.1480	-.1570	-.1350

MACH (1) = 1.555 BETAT (6) = 5.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0375	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2711	.3200	.3953	.5120
PHI														
0.000	-.1560													
40.000	-.1520	.0100	-.0940	-.1560	-.2060	-.2010			-.0840		-.0940			
70.000		-.0620	.0190	.0380	.1020	-.0340			-.0600					
90.000		-.0510	.0430	.1110	.0650	-.0620			-.0520					
105.000			.0870	.0020	-.1420	-.0810			-.0990					
110.000									.0190					
120.000	-.0330	-.0350	.2810	.0240	-.1830	-.0920			-.0430					
135.000			.7750	.3770	-.1380	-.1210			-.1260					
150.000	-.0820	-.0740	.1460	.3340	.1270	.0390			-.0110					

(880812)

ADJUSTED PRESSURE DATA - 1A9E
AMES 97-707 1A9 02A + S3 + T9 ORBIT PER FUSELAGE

MACH (2) = 2.000
BETAT (2) = -6.280

Y/LB	0.0000	0.0175	0.0188	0.0339	0.0602	0.1355	0.1506	0.1581	0.1732	0.1958	0.2259	0.2711	0.3203	0.3953	0.5120
PHI															
142.000															
15.000															
197.000															
162.000															
165.000															
159.000															
172.000															
170.000															
Y/LB	0.0000	0.0273	0.6526	0.7380	0.7869	0.8283	0.8848	0.9262	0.9639	1.0015	1.0392				

MACH (2) = 2.000
BETAT (3) = -4.240

Y/LB	0.0000	0.0175	0.0188	0.0339	0.0602	0.1355	0.1506	0.1581	0.1732	0.1958	0.2259	0.2711	0.3203	0.3953	0.5120
PHI															
142.000															
15.000															
197.000															
162.000															
165.000															
159.000															
172.000															
170.000															
Y/LB	0.0000	0.0273	0.6526	0.7380	0.7869	0.8283	0.8848	0.9262	0.9639	1.0015	1.0392				

MACH (2) = 2.000
BETAT (3) = -4.240

Y/LB	0.0000	0.0175	0.0188	0.0339	0.0602	0.1355	0.1506	0.1581	0.1732	0.1958	0.2259	0.2711	0.3203	0.3953	0.5120
PHI															
142.000															
15.000															
197.000															
162.000															
165.000															
159.000															
172.000															
170.000															
Y/LB	0.0000	0.0273	0.6526	0.7380	0.7869	0.8283	0.8848	0.9262	0.9639	1.0015	1.0392				

TABULATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE

(RBC812)

MACH (2) = 2.000 BETAT (5) = 3.920

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0410	.2050	.5080	.1780	.0990	-.0280			
180.000		-.0170	-.0190	.1150						

MACH (2) = 2.000 BETAT (6) = 5.960

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
20.000	1.4910	.9240	.4750	.1010	-.0210	.1840	.0630	.0750	.0130	.0240
20.000			.4290	.0670	-.0070	.1660	.0820	.0730		
40.000			.3680	.0660	.0050	.1290	.0740	.0450	.0160	-.0320
55.000			.3450	.0440	.0130	.1020	.1630	.1600		
70.000			.3130	-.0550	-.0470	.0740	.1270	.1690	-.0350	-.1190
90.000		.8570	.3160	-.0540	-.0480	.0540	.1760	.1200	-.0620	-.1050
120.000			.3860	.0900	.0430	.0370	.0760	-.0800	-.1730	-.0880
142.000			.4720	.1520	.1840	.4330	.5490	-.1550	-.1720	.0000
157.000							.8320			
182.000							.6370	-.1920	-.2490	-.0940
185.000							.7240			
189.000						1.0440	.9480	-.1470	-.1090	-.0440
172.000	1.4910	1.1280	.5060	.2590	.2910	.6350	.9680			
180.000	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392

MACH (2) = 2.000 BETAT (6) = 5.960

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
40.000	-.0130	-.0280	-.0260	-.1700	-.1790	-.1710	-.1870	-.1730	-.1130	-.1470
70.000	-.0900	-.0260	-.0550	-.0620	-.0190	-.0640	-.0640	-.0710		
90.000		-.0130	-.0470	.0080	-.0190	-.0240	-.0760	-.0920		
105.000				.0390	-.0330	-.0240	-.0910	-.0950		
110.000		-.0210	-.0210	.1790	-.0300	-.1620	-.1150	-.0780	.0280	
120.000				.6750	.3550	-.1060	-.1100	-.1080	-.0320	
135.000				.0410	.3310	.0920	.0330	-.0010		
150.000		-.0700	-.0830	.2140	.3500	.1230	.0490	-.0620		
165.000		-.0790								
180.000		-.0720	-.0710	.0510						

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA98

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R80813)

MACH (1) = 1.555 BETAT (3) = -4.240

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1956	.2259	.2711	.3200	.3953	.5120
PHI															
142.000			.4410	.0690	.2020	.7460		.9670	.6870	-.0760	-.1180	-.1890	.5200	1480	-.0539
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000		1.3790	.8870	.3090	.1010	.1920	.7640		.7170	-.3420	-.2070	-.1750	-.1210	-.1250	
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					

MACH (1) = 1.555 BETAT (4) = -0.140

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1956	.2259	.2711	.3200	.3953	.5120
PHI															
20.000			.5270	-.0780	-.1420	.0600			.0990	.0850	-.0590	-.0340	-.1090	-.1050	.0100
40.000			.5440	-.0510	.0020	.0800			.0520	.0550	.0550	.0400	-.1940	-.1140	-.0250
55.000			.5260	-.0080	.0610	.1490			.1990	.0090	.0090	-.2300	-.2460	-.1500	-.0310
70.000		.9730	.4870	.0130	.0710	.1780			.3960	-.0190	-.2410	-.2290	-.1750	-.0520	
90.000			.4250	-.0070	.0710	.1950									
120.000			.3610	-.0140	.1180	.3450			-.1920						
142.000			.3800	.0330	.1680	.7010		.8190	.6120	-.1620	-.2080	.0000	-.1280	-.1990	
150.000															
157.000															
162.000															
165.000															
169.000															
172.000							1.0490								
X/LB															

1.0490

TABLATED PRESSURE DATA - IA9B

DATE 2 SEP 73

AMES 97-707 IA9 OGA + S3 + T9 ORBITER FUSELAGE

(RB-813)

MACH (1) = 1.555 BETAT (4) = -1.140

SECTION (1) ORBITER FUSELAGE	DEPENDENT VARIABLE CP														
X/LB	.0000	.0075	.0100	.0339	.0602	.1355	.1506	.1501	.1752	.1958	.2259	.2711	.3200	.3953	.5120
PMI	180.000	1.4030	.8990	.3070	.1020	.1900	.8910	.7170							
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PMI	105.000	-.0270	-.0450	.0730	.0140	.0310	-.1380	-.3280	-.1070	-.0730					
40.000	70.000	90.000	105.000	110.000	120.000	135.000	150.000	165.000	180.000	-.0700					
PMI	105.000	110.000	120.000	135.000	150.000	165.000	180.000	-.0590							

MACH (1) = 1.555 BETAT (5) = 3.940

SECTION (1) ORBITER FUSELAGE	DEPENDENT VARIABLE CP														
X/LB	.0000	.0075	.0100	.0339	.0612	.1355	.1506	.1501	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PMI	180.000	1.3930	1.0320	.4730	-.1280	-.0580	.0270	.0270	.0270	.0360					
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PMI	105.000	-.0270	-.0450	.0730	.0140	.0310	-.1380	-.3280	-.1070	-.0730					
40.000	70.000	90.000	105.000	110.000	120.000	135.000	150.000	165.000	180.000	-.0700					
PMI	105.000	110.000	120.000	135.000	150.000	165.000	180.000	-.0590							

(R0C013)

DATE 20 SEP 73 TABULATED PRESSURE DATA - IAB9
ANES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.555 BETAT (5) = 3.940

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7385	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000	-.1020	-.0970	-.0900	-.0820	-.0730	-.0630	-.0530	-.0430	-.0330	-.0230
90.000	-.0700	-.0680	-.0640	-.0590	-.0530	-.0460	-.0390	-.0320	-.0250	-.0180
105.000										
110.000	-.0280	-.0280	-.0290	-.0290	-.0290	-.0290	-.0290	-.0290	-.0290	-.0290
120.000										
135.000	-.0180	-.0310	.3020	.3510	.0970	-.0990	-.0210			
150.000	-.0590	.3130	.4840	.0920	.0180	-.1630				
165.000	-.0860	-.0790	.1300							
180.000										

MACH (1) = 1.555 BETAT (6) = 5.990

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1546	.1581	.1732	.1958	.2259	.2711	.3250	.3955	.5120
PHI															
20.000	1.3780	1.0200	.4910	-.0570	.1240	.0110									
30.000			.4380	-.0690	-.0160	.0010									
40.000			.3940	-.0790	-.0470	.0160									
55.000			.3470	-.0820	-.0970	.0660									
70.000			.2750	-.1230	-.1240	.1240									
90.000	.7780	.2310	-.1700	-.1190	.1710										
120.000		.2300	-.1020	-.0460	.3680										
142.000		.2790	-.0160	.0870	.5030										
150.000															
157.000															
162.000															
169.000															
172.000															
180.000															
185.000															
190.000															
195.000															
200.000															

SECTION (2) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7385	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
40.000	-.1200	.1240	-.0390	-.1040	-.2250	-.1970				
70.000	-.0280	-.0290	-.0160	.0970	-.0180	-.0720	-.1080			
90.000	.0350	.0350	.0920	.0090	-.0270	-.0890	-.1020			
105.000			.1260	.0330	-.0280	-.1110	-.1120			
110.000										
120.000	-.0230	.0730	.2550	.0320	-.1800	-.1190	-.0940			
125.000			.7570	.3760	-.1180	-.0950	-.1020			
135.000						.0960	.0080			
150.000			-.1090	-.0560	.2020	.3220	.0980			

COMPUTED PRESSURE DATA - 1A9B

(950013)

AVCS 97-707 1A9 OZA + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.000 BETAT (2) = -6.260

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.0000	.0075	.0188	.0339	.6002	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI									.1540		.0050	-.0400	.0000	-.0360	-.0370
142.000									.8440						
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000	1.4140	.9950	.4080	.1730	.2120	.5480			.7910		-.1070	.0150	-.0110	-.0460	-.0350
X/LB	.5875	.6626	.7380	.7869	.8233	.8848	.9262	.9639	1.0015	1.0392					
PHI							.9210								
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000															

-.0850
-.1530

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.0000	.0075	.0188	.0339	.6002	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI									.1090		.0770	.0220	.0160	-.0320	.0510
20.000									.0920						
40.000									.1050						
55.000									.2350						
70.000									.2740						
90.000									.3690						
120.000									.5610						
142.000									.0980						
150.000									.0700						
157.000									.8120						
162.000									.7560						
165.000															
169.000															
172.000															
180.000															

MACH (2) = 2.000 BETAT (3) = -4.220

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.0000	.0075	.0188	.0339	.6002	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI									.1090		.0770	.0220	.0160	-.0320	.0510
20.000									.0920						
40.000									.1050						
55.000									.2350						
70.000									.2740						
90.000									.3690						
120.000									.5610						
142.000									.0980						
150.000									.0700						
157.000									.8120						
162.000									.7560						
165.000															
169.000															
172.000															
180.000															

.9580

DATE 20 SEP 73

TABLATED PRESSURE DATA - IA98

AMES 97-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE

(RECS13)

MACH (2) = 2.000 BETAT (3) = -4.220

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP				
X/LB	PHI					
181.140	1.4240	1.0180	.4250	.1900	.2150	.5170
X/LB	.5873	.6626	.7380	.7869	.8283	.8848
PHI					.9639	1.0015
						1.0392

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP				
X/LB	PHI					
110.000	1.4400	.9570	.5720	.1120	.0190	.2690
PHI						.6890
						.6580
						.6670
						.6890
						.9310
						.9639
						1.0015
						1.0392

MACH (2) = 2.000 BETAT (4) = -1.140

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP				
X/LB	PHI					
181.140	1.4240	1.0180	.4250	.1900	.2150	.5170
X/LB	.5873	.6626	.7380	.7869	.8283	.8848
PHI					.9639	1.0015
						1.0392

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP				
X/LB	PHI					
110.000	1.4400	.9570	.5720	.1120	.0190	.2690
PHI						.6890
						.6580
						.6670
						.6890
						.9310
						.9639
						1.0015
						1.0392

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP				
X/LB	PHI					
181.140	1.4240	1.0180	.4250	.1900	.2150	.5170
X/LB	.5873	.6626	.7380	.7869	.8283	.8848
PHI					.9639	1.0015
						1.0392

MACH (2) = 2.000 BETAT (4) = -1.140

TABULATED PRESSURE DATA - 1A9B

(R80813)

AMES 97-707 1A9 O2A + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.000 BETAT (5) = 3.930

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0650		.1670	.4220	.1190	.0470	-.0490		
180.000		-.0570	-.0570	.0730						

MACH (2) = 2.000 BETAT (6) = 5.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
1.4090	.9460	.5340	.1060	.0080	.0080	.1910			.0820	.0690	.0130	-.0320	-.0690	-.0410	
20.000		.4830	.1000	-.0230	.1970				.0830	.0660		-.0340	-.0740	-.0530	
40.000		.4270	.0980	-.0080	.1440				.1350	.0700					
55.000		.3610	.0860	.0060	.0610				.1280	.1100					
70.000		.3040	-.0560	-.0360	.0410				.1370	.1370	-.0610	-.1330	-.1320	-.0710	
90.000		.2890	-.0670	-.0550	.0270				.1150	.1150	-.0600	-.1260	-.1320	-.0860	
120.000		.3250	.0080	.0000	.0150				.1170	-.0670	-.1380	-.1190	-.1840	-.0820	
142.000		.3830	.0840	.1130	.3300				.4520	-.1780	-.1960	.0000	-.0370	-.0510	
150.000								.7000							
157.000									.5490						
162.000										-.2160	-.1810	-.1270	-.0820	-.0840	
165.000									.6300						
169.000															
172.000															
180.000	1.0000	1.0000	.4040	.1750	.2020	.5340			.8430						

MACH (2) = 2.000 BETAT (6) = 5.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0640								
180.000		-.0530								
20.000		.0010	-.1240	-.1140	-.1270	-.1530			-.1370	-.1600
40.000		-.0650	-.0870	-.0960	-.0560	-.0790	-.0950		-.1260	
55.000		-.0500	-.0760	-.0220	-.0480	-.0460	-.0900			
70.000			.0100	-.0380	-.0450	-.1050	-.1180			
90.000									.0180	
110.000									.0060	
120.000		-.0580	-.0510	.1580	-.0030	-.1440	-.1230	-.0950		
135.000			.5510	.3310	-.1180	-.1100	-.1020			
150.000		-.0850	-.0770	.1790	.1850	-.0440	-.0140	-.0590		
165.000		-.1100	.1100	.3450	.0720	-.0450	-.0560			
180.000		-.0920	-.1120	.0460						

DATE 20 SEP 73 TABULATED PRESSURE DATA - 1A9B

AMES 97-757 1A9 O2A + S3 + T9 CRBITER FUSELAGE

(RBOB16)

MACH (1) = 1.555 BETAT (2) = -6.260

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.50205	.50775	.0188	.0339	.1602	.1355	.1516	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI	1.3050	1.1100	.5650	-1.400	-1.510	.0380									
20.000	.6890	.1240	-0.0590	.0240											
40.000	.8020	.1890	.2220	-0.0770											
55.000	.7840	.2290	.3280	.1470											
70.000	.7300	.2830	.3070	.1750											
90.000	1.1190	.6180	.2020	.3110	.2060										
120.000	.4690	.1240	.2560	.2330											
142.000	.3650	.0130	.1810	.6220											
157.000					.9120										
162.000															
165.000															
169.000															
172.000															
187.000	1.3090	.7530	.2020	.0110	.1010	.5710									
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					

MACH (1) = 1.555 BETAT (3) = -4.220

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.50205	.50775	.0188	.0339	.1602	.1355	.1516	.1581	.1732	.1958	.2259	.2711	.3210	.3953	.5120
PHI	1.3050	1.1100	.5650	-1.400	-1.510	.0380									
20.000	.6890	.1240	-0.0590	.0240											
40.000	.8020	.1890	.2220	-0.0770											
55.000	.7840	.2290	.3280	.1470											
70.000	.7300	.2830	.3070	.1750											
90.000	1.1190	.6180	.2020	.3110	.2060										
120.000	.4690	.1240	.2560	.2330											
142.000	.3650	.0130	.1810	.6220											
157.000					.9120										
162.000															
165.000															
169.000															
172.000															
187.000	1.3090	.7530	.2020	.0110	.1010	.5710									
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA98

AMES 97-707 1A9 Q2A + S3 + T9 ORBITER FUSELAGE

(RBOB14)

MACH (2) = 2.000

BETAT (1) = -8.290

SECTION (1) ORBITER FUSELAGE

X/LB	PHI	DEPENDENT VARIABLE CP	1.732	1.958	.2259	.2711	.3200	.3953	.5120
.000	.9870	.5960	.1320	.0250	.1590	.0410	.0480	.0480	.0480
20.000	.9870	.6470	.2480	.1450	.1210	.0480	.0480	.0480	.0480
40.000	.9870	.7440	.2770	.4180	.1570	.2250	.1430	.1430	.1430
55.000	.9870	.7690	.3330	.5180	.3220	.2590	.2190	.2190	.2190
70.000	.9870	.7480	.3110	.4410	.3420	.2920	.2530	.2530	.2530
90.000	.9870	.6780	.2160	.3210	.3530	.5930	.1460	.1460	.1460
120.000	.9870	.5670	.1950	.2290	.3400	.1670	.1650	.1650	.1650
142.000	.9870	.4760	.1230	.1650	.4610	.7470	.0980	.0980	.0980
150.000	.9870	.4760	.1230	.1650	.4610	.7470	.0980	.0980	.0980
157.000	.9870	.4760	.1230	.1650	.4610	.7470	.0980	.0980	.0980
165.000	.9870	.4760	.1230	.1650	.4610	.7470	.0980	.0980	.0980
169.000	.9870	.4760	.1230	.1650	.4610	.7470	.0980	.0980	.0980
172.000	.9870	.4760	.1230	.1650	.4610	.7470	.0980	.0980	.0980
180.000	.9870	.4760	.1230	.1650	.4610	.7470	.0980	.0980	.0980

.8980

.8490

.9639

1.0015

1.0392

1.0770

1.1148

1.1525

1.1903

1.2280

1.2658

1.3035

1.3413

1.3790

1.4168

1.4545

1.4923

1.5300

1.5678

1.6055

1.6433

1.6810

1.7188

1.7565

1.7943

1.8320

1.8698

1.9075

1.9453

1.9830

2.0208

2.0585

2.0963

2.1340

2.1718

2.2095

2.2473

1.0392

1.0770

1.1148

1.1525

1.1903

1.2280

1.2658

1.3035

1.3413

1.3790

1.4168

1.4545

1.4923

1.5300

1.5678

1.6055

1.6433

1.6810

1.7188

1.7565

1.7943

1.8320

1.8698

1.9075

1.9453

1.9830

2.0208

2.0585

2.0963

2.1340

2.1718

2.2095

MACH (2) = 2.000

BETAT (2) = -6.250

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	PHI	DEPENDENT VARIABLE CP	.1732	.1958	.2259	.2711	.3200	.3953	.5120
.000	.9870	.5960	.1320	.0250	.1590	.0410	.0480	.0480	.0480
20.000	.9870	.6470	.2480	.1450	.1210	.0480	.0480	.0480	.0480
40.000	.9870	.7440	.2770	.4180	.1570	.2250	.1430	.1430	.1430
55.000	.9870	.7690	.3330	.5180	.3220	.2590	.2190	.2190	.2190
70.000	.9870	.7480	.3110	.4410	.3420	.2920	.2530	.2530	.2530
90.000	.9870	.6780	.2160	.3210	.3530	.5930	.1460	.1460	.1460
120.000	.9870	.5670	.1950	.2290	.3400	.1670	.1650	.1650	.1650
142.000	.9870	.4760	.1230	.1650	.4610	.7470	.0980	.0980	.0980
150.000	.9870	.4760	.1230	.1650	.4610	.7470	.0980	.0980	.0980
157.000	.9870	.4760	.1230	.1650	.4610	.7470	.0980	.0980	.0980
165.000	.9870	.4760	.1230	.1650	.4610	.7470	.0980	.0980	.0980
169.000	.9870	.4760	.1230	.1650	.4610	.7470	.0980	.0980	.0980
172.000	.9870	.4760	.1230	.1650	.4610	.7470	.0980	.0980	.0980
180.000	.9870	.4760	.1230	.1650	.4610	.7470	.0980	.0980	.0980

.8980

.8490

.9639

1.0015

1.0392

1.0770

1.1148

1.1525

1.1903

1.2280

1.2658

1.3035

1.3413

1.3790

1.4168

1.4545

1.4923

1.5300

1.5678

1.6055

1.6433

1.6810

1.7188

1.7565

1.7943

1.8320

1.8698

1.9075

1.9453

1.9830

2.0208

2.0585

2.0963

2.1340

2.1718

2.2095

2.2473

TABLATED PRESSURE DATA - IA95

AMES 97-707 IA9 O2A + S3 + T9 CRBITER FUSELAGE

DATE 20 SEP 73

(RB0814)

MACH (2) = 2.000 BETAT (2) = -6.250

SECTION (1) ORBITER FUSELAGE	DEPENDENT VARIABLE CP														
X/LB	.0000	.0075	.0188	.0339	.0632	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000				.4750	.1390	.1680	.3200	.9010	.7410	.1350	-.0640	-.0690	.0000	-.0930	-.0940
150.000									.6910						
157.000									.5480						
165.000							.8650		.7430						
169.000															
172.000				.3230	.1380	.1280	.3400								
181.000		1.3240	.8620	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					

MACH (2) = 2.000 BETAT (3) = -4.200

SECTION (1) ORBITER FUSELAGE	DEPENDENT VARIABLE CP														
X/LB	.0000	.0075	.0188	.0339	.0632	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
40.000				.0740	.0830	-.0780	-.0140	-.0490	-.0710	-.0710					
70.000				-.0380	-.0580	-.0270	-.0120	-.0640							
90.000				-.0220	-.0540	.0260	-.0300	-.0700	.1080						
105.000									.0060						
110.000				-.0610	-.0810	.4800	.2210	.0210	-.0300	-.0510					
120.000				.2010	.2020	-.0900	-.1250	-.1130							
135.000				-.0440	-.0590	.0480	-.1510	-.0290	-.0400						
150.000				-.0280	.0710	.1670	.1330	.0110							
165.000				-.1180	-.1360	-.0060									
180.000															

MACH (2) = 2.000 BETAT (3) = -4.200

SECTION (1) ORBITER FUSELAGE	DEPENDENT VARIABLE CP														
X/LB	.0000	.0075	.0188	.0339	.0632	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
20.000				.6380	.2040	.0130	.1950		.1020	.0690	.0690	.0180	-.0190	.0560	.0590
40.000				.6930	.2120	.2790	.1820		.0810	.0970	.0970				
55.000				.6680	.2420	.3580	.2640		.1790	.1720	-.0280	-.1020	-.0700	.0170	.0170
70.000				.6360	.2090	.2660	.2800		.2190	.1990	-.0430	-.1010	-.0940	-.0180	-.0180
90.000		1.0760	.5710	.1350	.1660	.2920			.2470	.1110	-.0720	-.1160	-.0190	-.0180	
120.000			.5050	.1370	.1900	.2940			.5510	.0900					
142.000			.4540	.1090	.1500	.4170			.7110	-.0490	-.0900	.0000	-.0140	-.0140	-.0140
150.000							.8510		.6780						
157.000															
162.000															
165.000															
169.000															
180.000															

.7340

DATE 20 SEP 73

TABLIFIED PRESSURE DATA - 1A9B

AMES 97-707 1A9 O2A + S3 + T9 ORBITER FUSELAGE

(R00B14)

MACH (2) = 2.000 BETAT (4) = -.130

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000	-.0880	-.1100	-.1140	-.0630	-.0700	-.0940	-.1010			
90.000	-.0540	-.0850	-.0010	-.0330	-.0450	-.0880	-.1110			
105.000			.0430	.0150	-.0430	-.0930	-.1200		.0420	
110.000										.0230
120.000	-.0360	-.0520	.1330	.0780	-.0680	-.0840	-.0870			
135.000		.2480	.2480	.2490	-.0680	-.0470	-.0430			
150.000	-.0430	-.0370	.1420	.1890	.0150	.0240	.0120			
165.000	-.0510	.1550	.2110	.1210	.0740	-.0590				
180.000	-.1670	-.0260	.0370							

MACH (2) = 2.000 BETAT (5) = 3.950

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0020	.0075	.0188	.0339	.0612	.1355	.1956	.1581	.1732	.1958	.2259	.2711	.3200	.3933	.5120
PHI															
0.000	1.3400	.9670	.5820	.1360	.0330	.1870		.1130	.0760	.0010	-.0480	-.1120	-.0490		
20.000		.5640	.1650	.0050	.2380		.1380	.0570	-.0570	-.0470	-.0850	-.1440	.0110		
40.000		.5350	.1640	.0550	.2400		.1240	.0870	-.0670						
55.000		.4630	.1610	.0820	.1250		.1140	.1060	.1060	-.0830	-.1430	-.1500	-.0940		
70.000		.3900	.0520	.0370	.0780		.1480	.1070	.1070	-.0960	-.1490	-.1570	-.1010		
90.000		.6280	.3320	-.0280	.0200	.0700	.2430	.1720	.0450	-.1270	-.1350	-.1300	-.1120		
120.000			.3200	.0140	.0190	.0890		-.1180	-.1610	-.1680	.0000	-.0610	-.0860		
142.000			.3360	.0420	.0770	.1950	.5900	.4760	-.2250	-.1970	-.0860	-.0470	-.0840		
150.000															
162.000															
165.000															
169.000															
172.000															
180.000	1.3400	.9020	.3200	.1050	.1360	.3800	.7560	.7560	-.2040	-.1620	-.1190	-.1210	-.0940		

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0660	.0770	.0880	.1090	.0680	.0680	.0680	.0680	.0680	.0680	.0680	.0680	.0680	.0680	.0680
PHI															
0.000	.0660	.0770	.0880	.1090	.0680	.0680	.0680	.0680	.0680	.0680	.0680	.0680	.0680	.0680	.0680
40.000	.0320														
70.000		.0880	-.1100	-.1090	-.0810	-.0900	-.1060	-.1190							
90.000		-.0660	-.0680	-.0420	-.0800	-.0670	-.1060	-.1160							
105.000			.0680	.0680	.0680	.0680	.0680	.0680							
110.000															
120.000		-.0530	-.0590	.1230	.0420	-.1120	-.1160	-.1050							
135.000			.4770	.3320	-.1140	-.1000	-.0680	-.0680							
150.000		-.0790	-.0500	.1910	.3940	-.0730	-.0170	-.0430							

AVES 97-707 1A9 OZA + S3 + T9 ORBITER FUSELAGE

(R80814)

MACH (2) = 2.144 BETAT (5) = 3.950

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI

165.000 -.0950 .1350 .4080 .0160 .0260 -.0700
180.000 -.0800 -.0770 .0370

MACH (2) = 2.144 BETAT (6) = 5.990

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/LB .0000 .0075 .0188 .0339 .0602 .1056 .1591 .1732 .1958 .2259 .2711 .3214 .3653 .5127

PHI

.0000 1.3290 .9880 .6790 .1130 -.0740 .1740
20.000 .5570 .1120 -.0510 .2140
40.000 .4780 .1110 -.0350 .1540
50.000 .3970 .1040 -.0160 .0880
70.000 .3090 -.0050 -.0370 .0370
90.000 .2610 -.0780 -.0530 .1240
120.000 .2580 -.0350 -.0470 .1240
150.000 .2920 .0170 .0470 .2590
157.000 .5570
162.000 .4690
165.000 .5390
169.000 .7210
172.000 .6620
180.000 1.3290 .8930 .3070 .0910 .1240 .4270
185.000 .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI

.0000 -.0610
40.000 -.0490
70.000 -.0880
90.000 -.0680
105.000 .0030
120.000 -.0620
135.000 .0990
150.000 -.1220
165.000 .1310
180.000 .0000
185.000 .0000
190.000 .0000
195.000 .0000
200.000 .0000
205.000 .0000
210.000 .0000
215.000 .0000
220.000 .0000
225.000 .0000
230.000 .0000
235.000 .0000
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970.000 .0000
975.000 .0000
980.000 .0000
985.000 .0000
990.000 .0000
995.000 .0000
1000.000 .0000

DATE 21 SEP 73

TABLATED PRESSURE DATA - IA9B

AMES 97-717 IA9 O2A + S3 + T9 ORBITER FUSELAGE

(RDC0615)

MACH (1) = 1.555 BETAT (2) = -6.280

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CF	
X/LB			
PHI	1.2760	1.2130	.5040
20.000			
40.000			
55.000			
70.000			
90.000			
110.000			
120.000			
140.000			
157.000			
165.000			
169.000			
172.000			
180.000			
X/LB	.5673	.6626	.7380
PHI	-.0130		
40.000			
70.000			
90.000			
110.000			
120.000			
135.000			
150.000			
165.000			
180.000			
X/LB	.5673	.6626	.7380
PHI	-.0130		
40.000			
70.000			
90.000			
110.000			
120.000			
135.000			
150.000			
165.000			
180.000			

MACH (1) = 1.555 BETAT (3) = -4.230

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CF	
X/LB			
PHI	1.3590	1.2310	.5430
20.000			
40.000			
55.000			
70.000			
90.000			
110.000			
120.000			
140.000			
157.000			
165.000			
169.000			
172.000			
180.000			
X/LB	.0000	.0075	.0188
PHI			
20.000			
40.000			
55.000			
70.000			
90.000			
110.000			
120.000			
140.000			
157.000			
165.000			
169.000			
172.000			
180.000			

DATE 20 SEP 73

TABULATED PRESSURE DATA - 1A9B
AMES 97-707 1A9 O2A + S3 + 79 ORBITER FUSELAGE

(RPOB15)

MACH (1) = 1.555 BETAT (3) = -4.230

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/Y/B	.0020	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120	
PHI																
142.000			.2980	-.0370	.1170	.5650		.8580		-.0620		-.1920	-.2580	.0000	-.2120	-.0980
150.000									.5130							
157.000									.3920							
162.000																
165.000							.8250									
169.000																
172.000		.7050	.1570	-.0210	.0620	.5440										
180.000	1.3590															
X/Y/B	.5873	.6626	.7380	.7869	.8283	.8868	.9262	.9639	1.0015	1.0392						

MACH (1) = 1.555 BETAT (4) = -1.120

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/Y/B	.0020	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000		.7050	.1570	-.0210	.0620	.5440									
180.000	1.3590														
X/Y/B	.5873	.6626	.7380	.7869	.8283	.8868	.9262	.9639	1.0015	1.0392					

MACH (1) = 1.555 BETAT (4) = -1.120

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/Y/B	.0020	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000		.7050	.1570	-.0210	.0620	.5440									
180.000	1.3590														
X/Y/B	.5873	.6626	.7380	.7869	.8283	.8868	.9262	.9639	1.0015	1.0392					

.9700

DATE 20 SEP 73

TABULATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE

(R90815)

MACH (1) = 1.555 BETAT (4) = -.120

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0168	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
180.000	1.3020	.7070	.1490	-.0170	.0670	.6750		.5920							
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.0280														
40.000	.0490	.2230	.0720	.0900	-.1090	-.3220		-.0550							
70.000		-.1310	-.1480	-.2010	-.1000	-.1360	-.1560								
90.000		-.1100	-.0970	-.0110	-.0680	-.1700	-.1840								
105.000			.0840	.0340	-.0940	-.1850	-.2160								
110.000															
120.000		-.0710	-.0520	.3690	.0550	-.1580	-.1660	-.1430							
135.000			.3340	.2230	-.1630	-.0800	-.0530								
150.000		-.0360	.0470	.1810	.1790	-.0220	-.0210	-.0520							
165.000		-.1000	.1860	.2450	.0760	.0180	-.1660								
180.000		-.0230	-.0080	.1670											

MACH (1) = 1.555 BETAT (5) = 3.970

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0168	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3100	1.2560	.5620	-.1440	-.1670	.0680		.0540							
20.000		.5200	-.1450	-.1840	.0700			.0190							
40.000		.5270	-.1460	-.1640	.0730			-.0200							
55.000		.4870	-.1130	-.1130	.0600			-.0110							
70.000		.3990	-.0980	-.1380	.1040			.1080							
90.000	.6140	.2670	-.1460	-.0890	.0100			.2420							
120.000		.1930	-.1470	-.0470	.2630			.1830							
142.000			.1910	-.1050	.0050	.5170		.4620							
150.000						.7030									
157.000															
162.000															
165.000															
169.000															
172.000															
180.000	1.3100	.7350	.1590	-.0390	.0640	.5930		.3530							
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000	.0110														
40.000	.0190	.1260	.0350	.0910	-.1650	-.1720		-.0450							

AMES 97-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE

(R03015)

MACH (2) = 2.000 BETAT (1) = -6.260

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB	PHI	.0000	.0075	.0168	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
.000	1.2810	1.0070	.6380	1.650	.0010	1.170				.0670		.0330	-.0250	-.0780	-.0700	-.0330
20.000			.6780	.2540	.1080	.1310				.0560		-.0150				
40.000			.7320	.3330	.3570	.1260				.0330			-.0240	-.0670	-.0230	.0700
55.000			.720	.3440	.4390	.2500				.1600		.0810				
70.000			.6920	.2730	.3570	.2680				.1940		.1570	-.0220	-.0310	-.0610	.0340
90.000			1.0680	.6150	.1830	.2300	.2800			.2210		.1600	-.0460	-.0300	-.0520	-.0380
120.000				.5120	.1480	.1820	.2700			.5060		.0900	-.0750	-.1210	-.1120	-.0800
142.000				.4200	.0930	.1330	.3420			.6760		-.0870	-.0610	.0000	-.1150	-.1070
150.000								.8000								
157.000										.6380			-.0520	-.0780	-.0160	-.0990
165.000										.4970						
169.000								.7720								
172.000							.4520			.6810						
180.000	1.2810	.8100	.2780	.0740	.0950							-.2190	-.1800	-.2070	-.2160	-.1140
X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392						

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB	PHI	.0000	.0075	.0168	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
.000	1.3180	1.0160	.6560	1.380	.0060	.2020				.1070		.0710	-.0110	-.0770	-.1080	-.0490
20.000			.6640	.2240	.0610	.1790				.0740		.0490				
40.000			.6930	.2240	.2700	.1550				.0620		-.0180	-.0440	-.0420	.0790	.0680
55.000			.6600	.2670	.3430	.2270				.1480		.0580				
70.000			.6190	.1780	.2530	.2450				.1740		.1360	-.0590	-.1270	-.0840	.0030
90.000			1.0410	.5480	.1020	.1510	.2570			.2030		.1720	-.0800	-.1120	-.1050	-.0260
120.000				.4660	.1190	.1230	.2520			.5130		.0670	-.0500	-.1350	-.1200	-.0900

MACH (2) = 2.000 BETAT (2) = -4.210

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP														
X/LB	PHI	.0000	.0075	.0168	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
.000	1.3180	1.0160	.6560	1.380	.0060	.2020				.1070		.0710	-.0110	-.0770	-.1080	-.0490
20.000			.6640	.2240	.0610	.1790				.0740		.0490				
40.000			.6930	.2240	.2700	.1550				.0620		-.0180	-.0440	-.0420	.0790	.0680
55.000			.6600	.2670	.3430	.2270				.1480		.0580				
70.000			.6190	.1780	.2530	.2450				.1740		.1360	-.0590	-.1270	-.0840	.0030
90.000			1.0410	.5480	.1020	.1510	.2570			.2030		.1720	-.0800	-.1120	-.1050	-.0260
120.000				.4660	.1190	.1230	.2520			.5130		.0670	-.0500	-.1350	-.1200	-.0900

DATE 25 SEP 73 TABULATED PRESSURE DATA - 1A9B

(RBO815)

AMES 97-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.0000 BETAT (2) = -4.210

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000															
X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120

MACH (2) = 2.0000 BETAT (3) = -.130

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000															
X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120

DATE 20 SEP 73 TABULATED PRESSURE DATA - IASB (R80815)
 AMES 97-707 IAS C2A + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.000 BETAT (4) = 3.970
 SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP 1.0015 1.0392

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000	-.0990	-.1200	-.1090	-.0840	-.1230	-.1440	-.1440	-.1250		
90.000	-.0770	-.0920	-.0830	-.1070	-.1410	-.1190				
105.000			-.0200	-.0320	-.0960	-.1440	-.1270			
115.000								-.0220		
120.000									-.0680	
135.000										
150.000	-.0740	-.0360	.1720	.3870	-.1100	-.0530	-.0420			
165.000	-.0940		.1370	.3860	.0790	-.0440	-.0720			
180.000	-.0860	-.0860	.0120							

MACH (2) = 2.000 BETAT (5) = 6.020
 SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0675	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3950	.5120
PHI															
20.000	1.2990	1.0100	.6370	.1470	-.0110	.1840			.0830	.0510	-.0010	-.0520	-.0820	-.0410	
40.000			.5860	.1140	-.0520	.2080			.0960	.0330	-.0780	-.0960	-.1530	.0090	
55.000			.5080	.1160	-.0320	.1790			.0830	-.0440	-.0780	-.0960	-.1530	.0090	
70.000			.4180	.1110	-.0110	.0960			.0720	.0150	-.0840	-.1440	-.1650	-.1160	
90.000		.7460	.3320	-.0120	-.0440	.0560			.1160	.0770	-.0970	-.1510	-.1680	-.1290	
120.000			.2610	-.0720	-.0440	.0340			.2170	.0340	-.1280	-.1570	-.1410	-.1190	
142.000			.2360	-.0430	-.0430	.0540			.3310	-.1550	-.1830	.0220	-.0790	-.1090	
150.000			.2570	-.0240	.0240	.2130		.5760	.3750	-.1950	-.1830	.0220	-.0790	-.1090	
157.000									.6380	-.2400	-.1950	-.1100	-.0810	-.1190	
162.000									.4900	-.2130	-.1690	-.1730	-.2150	-.1390	
165.000									.6590	-.2130	-.1690	-.1730	-.2150	-.1390	
169.000															
172.000															
180.000	1.2990	.8210	.2680	.0640	.0680	.3220	.7200		.6590	-.2130	-.1690	-.1730	-.2150	-.1390	

MACH (2) = 2.000 BETAT (5) = 6.020
 SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
40.000	-.0990	-.1200	-.1090	-.0840	-.1230	-.1440	-.1440	-.1250		
70.000	-.0770	-.0920	-.0830	-.1070	-.1410	-.1190				
90.000			-.0200	-.0320	-.0960	-.1440	-.1270			
105.000								-.0220		
120.000									-.0680	
135.000										
150.000	-.0740	-.0360	.1720	.3870	-.1100	-.0530	-.0420			
165.000	-.0940		.1370	.3860	.0790	-.0440	-.0720			
180.000	-.0860	-.0860	.0120							

AVES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE

(RB0815)

MACH (2) = 2.000

BETAT (5) = 6.020

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000	-.1230		-.0710	.3420	-.0460	.0220		-.1990		
180.000	-.1370	-.1580	-.0290							

MACH (2) = 2.000

BETAT (6) = 6.070

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0612	.1355	.3506	.7581	1.1732	1.9580	2.2259	.2711	.3252	.3953	.5121
PHI															
20.000	1.2760	.9920	.6780	.3300	.0380	.1180			.0330	-.0530	-.0940	-.0770	-.0380	-.0150	
40.000			.5480	-.1940	-.0480	.1360			.0350	-.1020					
55.000			.4600	.0910	-.0750	.1930			.0380	-.0940	-.1160	-.1580	-.1580	-.1010	
70.000			.3620	.0780	-.1610	.1480			.0350	-.0270					
90.000		.6810	.2720	-.0490	-.0840	.0770			.0380	.0650	-.1170	-.1740	-.1830	-.1170	
120.000			.2010	-.1070	-.0880	-.0240			.1660	.0670	-.1220	-.1740	-.1810	-.1140	
142.000			.1830	-.0740	-.0710	-.0180			.0530	-.0470	-.1520	-.1580	-.1360	-.1340	
150.000			.2170	-.0230	.0220	.1360			.2930	-.2210	-.2380	.0270	-.0960	-.1180	
157.000								.5050							
162.000															
165.000															
169.000															
172.000															
180.000	1.2760	.7950	.2520	.0520	.0790	.4100	.6070								

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
40.000	-.0070									
70.000	-.0420	.0340	-.0260	-.0920	-.1300	-.1550				-.0430
90.000		-.1030	-.1280	-.0920	-.1230	-.0980	-.0790			-.0960
100.000		-.0790	-.1020	-.0480	-.0910	-.1120	-.1260	-.0800		
110.000			.0220	-.0510	-.1120	-.1410	-.0930			
120.000	-.0790	-.0670	.1500	-.0220	-.1730	-.1480	-.0630	.0160		
130.000			.6550	.2380	-.1400	-.1120	-.0680	.0040		
140.000	-.1370	-.1460	-.0600	-.0600	-.1830	-.1260	-.1640			
165.000	-.1560		-.0160	.1240	-.0710	-.0930	-.1470			
180.000	-.1850	-.0750	-.0230							

AVCS 97-707 IA9 02A + S3 + T9 ORBITER FUSELAGE

(MODE:16)

MACH (1) = 1.555 BETAT (2) = -6.290

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/LB	PHI	.0000	.0075	.0168	.0339	.0672	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI																
.0000	1.2960	1.2370	.5310	-.1510	-.1710	.0400		.0250		.0250		-.0470	-.1400	-.1100	-.0720	.0680
20.0000		.7350	.0370	-.0920	-.0200	.0200		-.0440		-.0440		-.0420	-.0750	.0870	.0720	.0370
40.0000		.9120	.2340	.2160	-.0650			-.0200		-.0200		.0190				
55.0000		.8710	.2850	.3240	.0190			.0280		.0280		.0860	-.0160	-.1730	-.0300	-.0200
70.0000		.7630	.3480	.2460	.1350			.0620		.0620		.1300	-.1420	-.2040	-.0830	-.0720
90.0000		1.0800	.6140	.1930	.2590	.1520		.1290		.1290		-.0440	-.2170	-.2420	-.0840	-.1730
120.0000			.3920	.0610	.2030	.1530		.4520		-.0380						
142.0000			.2770	-.0450	.1270	.0100		.5560		.5560		-.2260	-.2460	.0000	-.2050	-.1330
150.0000							.8240									
157.0000								.4930		.4930		-.2710	-.1720	-.2010	-.1850	-.1120
162.0000								.3380		.3380						
165.0000							.7610									
169.0000								.5350		.5350		-.4110	-.3020	-.2690	-.3310	-.2260
172.0000		1.2960	.6420	.1100	-.0580	.0410	.4690									
180.0000		.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					

MACH (1) = 1.555 BETAT (3) = -4.240

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/LB	PHI	.0000	.0075	.0168	.0339	.0672	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI																
.0000	1.4290	1.2120	.5560	-.1580	-.1970	.0500		.0500		.0500		-.0550	-.1320	-.1460	-.0520	.0820
20.0000		.6620	-.0420	-.1130	.0130	.0130		-.0710		-.0710		-.0430				
40.0000		.8260	.1440	.1420	-.0680			-.0430		-.0430		-.0240	-.1230	.0690	.0240	.1580
55.0000		.8270	.1940	.2460	.0850			.0100		.0100		.0670				
70.0000		.7220	.2410	.1680	.1330			.0430		.0430		.0300	-.0140	-.2110	-.0520	-.0520
90.0000		1.0650	.5240	.0930	.1370	.1370		.1260		.1260		.0620	-.1730	-.2350	-.1160	-.0820
120.0000			.3380	.0810	.1410	.1410		.4200		.4200		-.0160	-.2430	-.2570	-.0720	-.1530

(R00816)

DATE 24 SEP 73 TABULATED PRESSURE DATA - 1A9B
 AMES 97-707 1A9 CGA + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.555 BETAT (5) = 4.000
 SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP
 X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI
 70.000 -.1260 -.1320 -.1390 -.1460 -.1530 -.1600 -.1670 -.1740 -.1810
 90.000 -.0740 -.1040 -.1340 -.1640 -.1940 -.2240 -.2540 -.2840 -.3140
 110.000 .0330 .0630 .0930 .1230 .1530 .1830 .2130 .2430 .2730
 120.000 -.0350 -.0140 .2130 .0620 -.1260 -.1210 -.1150 -.1100
 130.000 .3650 .2750 .1920 -.0590 -.0570
 150.000 -.0210 -.0230 .2480 .3010 .0120 -.0280 -.0470
 165.000 .2610 .2950 .0940 .0210 -.1660
 180.000 -.0890 -.0540 .1160

MACH (1) = 1.555 BETAT (6) = 6.060
 SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP
 X/LB .0000 .0075 .0188 .0339 .0672 .1355 .1516 .1581 .1732 .1958 .2259 .2711 .3270 .3953 .5120

PHI
 1.2710 1.1550 .6140 .0800 .0740 .0000
 20.000 .5550 .0890 .1310 .0220
 40.000 .4980 .0900 .1550 .0200
 60.000 .4210 .0830 .1560 .0070
 80.000 .3060 .1150 .1870 .0830
 90.000 .7310 .1950 .1900 .1420 .1000 .2220
 120.000 .1210 .1740 .1090 .3990
 142.000 .1130 .1450 .0360 .6140
 150.000 .2820
 157.000 .3360
 162.000 .5140
 165.000 .9639 1.0015 1.0392
 169.000 .0360
 172.000 .0360
 180.000 .0360

MACH (1) = 1.555 BETAT (7) = 10.000
 SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP
 X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI
 70.000 .1400 .1070 .0530 .1590 .1100
 90.000 .2430 .1340 .0940 .1100 .1380 .1740
 110.000 .0290 .1040 .1340 .1120 .1720 .1750
 120.000 .0120 .0370 .0160 .0750 .1120 .1960 .1960
 130.000 .0790 .0100 .1120 .1660 .1580
 150.000 .0430 .0170 .1950 .0150 .1660 .1580
 165.000 .4900 .2980 .1430 .1060 .1030
 180.000 .0230 .0410 .2820 .2840 .0580 .0510 .0780

PHI
 1.2710 1.1550 .6140 .0800 .0740 .0000
 20.000 .5550 .0890 .1310 .0220
 40.000 .4980 .0900 .1550 .0200
 60.000 .4210 .0830 .1560 .0070
 80.000 .3060 .1150 .1870 .0830
 90.000 .7310 .1950 .1900 .1420 .1000 .2220
 120.000 .1210 .1740 .1090 .3990
 142.000 .1130 .1450 .0360 .6140
 150.000 .2820
 157.000 .3360
 162.000 .5140
 165.000 .9639 1.0015 1.0392
 169.000 .0360
 172.000 .0360
 180.000 .0360

DATE 20 SEP 73 TABULATED PRESSURE DATA - 1A99

(RBOB16)

AMES 97-707 IA9 OCA + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.555 BETAT (6) = 6.060

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI
165.000 .0370 .3020 .3670 .0790 .0130 .-1810
180.000 -.1100 -.0450 .1580

MACH (1) = 1.555 BETAT (7) = 8.120

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .6626 .7380 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI
1.2800 1.1680 .5310 -.1440 -.1540 -.0030
20.000 .4340 -.1820 -.2120 -.0020
40.000 .3760 -.1830 -.2170 -.0310
55.000 .3030 -.1760 -.2250 -.0420
70.000 .2020 -.2130 -.2420 -.0670
90.000 .6640 .1120 -.2520 -.2140 .0860
120.000 .0560 -.2190 -.1490 .1840
142.000 .0680 -.1670 -.0570 .3020
150.000 .5620
157.000 .2540
162.000 .3140
165.000 .7320
169.000 .4780
172.000 .4090
180.000 .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI
-000 .1130
40.000 .2000 .0580 .0540 -.1030 -.1170 -.1140
70.000 -.0840 -.1470 -.1920 -.1400 -.1580 -.1860 -.1930
90.000 -.0410 -.0890 -.0350 -.1150 -.1590 -.2160 -.1980
105.000 .0340 -.0590 -.1590 -.2280 -.2190
110.000
120.000 -.0110 -.0350 .2120 -.0390 -.2130 -.2090 -.1840
135.000 .4720 .2690 -.1840 -.1680 -.1250
150.000 -.0170 -.0250 .2280 .1840 -.1670 -.0880 -.1430
165.000 -.0020 .2620 .3460 .0010 -.0520 -.2250
180.000 -.0870 -.0300 .1480

DATE 20 SEP 73

TABULATED PRESSURE DATA - IA98

(RBOB16)

AMES 97-717 IAS O2A + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.0000		BETAT (2) = -6.270		DEPENDENT VARIABLE CP	
SECTION (1) ORBITER FUSELAGE					
X/LB					
PHI					
142.000					
150.000					
157.000					
162.000					
165.000					
169.000					
172.000					
180.000					
X/LB					
PHI					
40.000					
70.000					
90.000					
105.000					
110.000					
120.000					
135.000					
150.000					
165.000					
180.000					
MACH (2) = 2.0000					
BETAT (3) = -4.220					
SECTION (1) ORBITER FUSELAGE					
X/LB					
PHI					
20.000					
40.000					
55.000					
70.000					
90.000					
120.000					
150.000					
162.000					
165.000					
169.000					
172.000					

AMES 97-707 IA9 ORA + S3 + T9 ORBITER FUSELAGE (REORIG)

MACH (2) = 2.1000 BETAT (7) = 8.1110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0150	.0339	.0612	.1355	.3106	.5881	.7320	.9158	.2259	.2711	.3250	.3953	.5120
PMI	1.2420	1.0280	.6450	.1010	-.0380	-.0960			.0200		-.0550	.0390	-.0640	-.0380	-.0280
20.1000			.5750	.0890	-.1090	-.1510			.0340		-.0540		-.0640	-.0380	-.0280
40.1000			.4720	.0650	-.1190	-.1220			-.0780		-.1140	-.1400	-.1610	-.1470	-.0280
55.1000			.3670	.0560	-.1090	-.0950			-.0690		-.0520	-.1220	-.1840	-.1930	-.1300
70.1000			.2660	-.0770	-.1100	-.1680			.0440		.0490	-.1320	-.1840	-.1930	-.1200
90.1000		.6630	.1840	-.1170	-.1090	-.0360			.1310		-.0490	-.1630	-.1750	-.1540	-.1300
120.1000			.0450	-.0860	-.0860	-.0320			.0490		-.0490	-.1630	-.1750	-.1540	-.1300
142.1000			.1710	-.0370	-.0270	.1160			-.2010		-.0220	-.2460	.0010	-.1140	-.1440
150.1000							.4450		.2540						
157.1000									.3580						
162.1000															
165.1000									.4210						
169.1000															
172.1000															
180.1000		1.2420	.7280	.2020	.0410	.0460	.3900		.5600		-.2280	-.1920	-.2760	-.2480	-.1550
X/LD	.5873	.6626	.7385	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					

X/LD	.0000	.0075	.0150	.0339	.0612	.1355	.3106	.5881	.7320	.9158	.2259	.2711	.3250	.3953	.5120
PMI	1.2420	1.0280	.6450	.1010	-.0380	-.0960			.0200		-.0550	.0390	-.0640	-.0380	-.0280
20.1000			.5750	.0890	-.1090	-.1510			.0340		-.0540		-.0640	-.0380	-.0280
40.1000			.4720	.0650	-.1190	-.1220			-.0780		-.1140	-.1400	-.1610	-.1470	-.0280
55.1000			.3670	.0560	-.1090	-.0950			-.0690		-.0520	-.1220	-.1840	-.1930	-.1300
70.1000			.2660	-.0770	-.1100	-.1680			.0440		.0490	-.1320	-.1840	-.1930	-.1200
90.1000		.6630	.1840	-.1170	-.1090	-.0360			.1310		-.0490	-.1630	-.1750	-.1540	-.1300
120.1000			.0450	-.0860	-.0860	-.0320			.0490		-.0490	-.1630	-.1750	-.1540	-.1300
142.1000			.1710	-.0370	-.0270	.1160			-.2010		-.0220	-.2460	.0010	-.1140	-.1440
150.1000							.4450		.2540						
157.1000									.3580						
162.1000															
165.1000									.4210						
169.1000															
172.1000															
180.1000		1.2420	.7280	.2020	.0410	.0460	.3900		.5600		-.2280	-.1920	-.2760	-.2480	-.1550

AMES 97-707 1A9 OZA + S3 + T9 ORBITER FUSELAGE

(R00817) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = 0.0000 INCHES
 BREF = 39.8490 INCHES ZMRP = 0.0000 INCHES
 SCALE = .0050 SCALE

PARAMETRIC DATA

ALPHAT = -8.0000 ORBINC = .5000
 RUDDER = -10.0000 ELEVON = .0000
 RUDDFLR = .0000

MACH (1) = 1.555 BETAT (1) = -8.410

DEPENDENT VARIABLE CP

SECTION (1) ORBITER FUSELAGE	DEPENDENT VARIABLE CP														
X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1516	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI	1.4490	.9710	.4230	-.0920	.1260	-.0140									
20.000	.5660	.0480	.1370	.0130											
40.000	.7490	.1660	.3320	.0370											
55.000	.8320	.2790	.4730	.2860											
70.000	.8390	.3330	.5110	.3590											
90.000	.7950	.3290	.5320	.4590											
120.000	.7410	.3330	.5670	.6710											
142.000	.6760	.3010	.5220	.9450											
150.000					1.0630										
157.000															
162.000															
165.000															
169.000															
172.000															
180.000	1.4490	1.0580	.4780	.2780	.4160	.9460									
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI	-.1920	.2970	.1230	.1550	-.0640	-.3030									
40.000	.0010	.0150	.0630	.1890	.1470	.0880	.0930								
70.000		.0440	.0830	.2190	.1430	.0770	.0660								
90.000			.2940	.2940	.1560	.0580	.0480								
105.000				.5680	.0570	.0530	.0690								
110.000				.6220	.4670	.0320	.0770								
120.000				.0490	.3190	.1210	.2730								
135.000				.0640	.3720	.5420	.3240								
150.000				-.1590	.0360	.4230	.1350								
160.000						.1770	.2730								

-.1530
-.1650

DATE 21 SEP 73

TABLULATED PRESSURE DATA - 1A98

(R00817)

AMES 97-707 1A9 02A + S3 + T9 CPB1 TER FUSELAGE

MACH (2) = 2.0000 BETAT (2) = -6.3300

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	PHI	0.0000	.0075	.0108	.0339	.0672	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
142.0000	.7660	.3420	.4190	.7730	1.2690	1.0210	.1430	.1260	.0310	.0000	.0460	.0350				
150.0000						.9460	.8440									
157.0000																
162.0000																
165.0000																
169.0000																
172.0000																
180.0000	1.5750	1.2370	.6210	.3670	.3960	.7970	1.3240									
X/LB	.5673	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392						

PHI

0.0000	.0130															
40.0000	.0820	.0430	.1040	.0390	-.0140	-.1410										
70.0000		.0580	.0440	.1380	.1190	.0770										
90.0000		.0810	.0500	.1700	.1410	.1460	.0930	.0620								
105.0000			.2620	.2210	.1450	.0680	.0390									
110.0000				.3220	.0910	.0770	.0760	.1270								
120.0000		.0890	.0710	.5060	.0910	.0770	.0760									
135.0000			.5890	.4890	.0910	.0740	.1960									
150.0000		.0720	.0790	.2570	.3480	.0400	.2490	.2960								
165.0000		.0760	.2870	.5030	.3290	.3610	.1640									
180.0000		-.0120	-.0110	.1560												

MACH (2) = 2.0000 BETAT (3) = -4.2800

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	PHI	0.0000	.0075	.0188	.0339	.0672	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
142.0000	.9780	.5060	.0580	.0380	.1970											
20.0000		.5210	.1230	.0630	.2150											
40.0000		.6090	.1230	.1960	.2630											
55.0000		.6380	.1450	.2410	.3940											
70.0000		.6560	.1450	.1920	.4280											
90.0000	1.2320	.6670	.1770	.1840	.4400											
120.0000		.7110	.2680	.3460	.3540											
142.0000		.7310	.3160	.4050	.7530											
150.0000					1.1890											
162.0000																
165.0000																
169.0000																
172.0000																

1.2700

DATE 20 SEP 73

TABULATED PRESSURE DATA - 1A98

(R00B17)

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE

BETAT (4) = -.170

MACH (2) = 2.000

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI	.0310	.0200	.0310	.0640	.0720	.0400	.0140
70.000	.0570	.0270	.1315	.0640	.0780	.0210	-.0010
90.000		.1540	.1180	.0790	.0010	-.0180	.0980
105.000							.1860
110.000	.0740	.0610	.2980	.1170	-.0130	.0080	.0380
120.000			.6860	.4740	.0150	.0780	.1070
135.000			.3340	.5040	.1530	.1820	.1990
150.000	.0570	.0710	.3270	.5780	.3550	.2750	.0720
165.000		.0660	.0790				
180.000							

MACH (2) = 2.000 BETAT (5) = 3.930

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB .6000 .0075 .0188 .0339 .0602 .1355 .1506 .1581 .1732 .1958 .2259 .2711 .3210 .3933 .5120

PHI	.0000	1.5770	.9790	.3180	.0660	.0070	.1860
20.000		.4670	.0650	.0120	.1720		.0780
40.000		.4460	.0630	.0330	.1500		.1530
55.000		.4150	.0350	.0460	.1820		.2350
70.000		.3920	.0160	.0110	.1480		.2650
90.000	.9610	.4100	.0050	.0060	.1250		.1740
120.000		.5020	.1270	.1300	.1170		-.0130
142.000		.5920	.2430	.2950	.4980		-.1020
150.000						.9600	.0220
157.000						.7300	-.0970
162.000						.8190	-.0250
165.000							-.1500
169.000							-.0960
172.000	1.5770	1.2490	.6080	.3540	.3950	.7980	-.0150
180.000							-.0960

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI	.0000	.0030												
40.000	-.0010	-.0020												
70.000		.0370	.0030											
90.000		.0530	.0100											
105.000														
110.000		.0460	.0380	.2480	.0300	-.0920	-.0420	-.0100						
120.000			.7530	.4440	-.0410	-.0310	-.0360							
135.000		.0220	.0450	.3010	.6080	.1860	.1270	.0820						
150.000														

-.1390
-.1320

-.1690

1.2130

1.0650

1.0015

1.0392

1.0650

1.0015

1.0392

1.0650

1.0015

1.0392

1.0650

1.0015

1.0392

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B (RBO817)

ARCS 97-707 IAG OCA + S3 + T9 CRBITER FUSELAGE

MACH (2) = 2.000		BETAT (5) = 3.930		DEPENDENT VARIABLE CP							
SECTION (1) ORBITER FUSELAGE		SECTION (1) ORBITER FUSELAGE		SECTION (1) ORBITER FUSELAGE							
X/LB	PHI	X/LB	PHI	X/LB	PHI						
165.000	-.0060	.5873	.6626	.7580	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
180.000	.0310	.0400	.1750	.2790	.6440	.2680	.1780	.0200			
MACH (2) = 2.000		BETAT (6) = 5.980		DEPENDENT VARIABLE CP							
SECTION (1) ORBITER FUSELAGE		SECTION (1) ORBITER FUSELAGE		SECTION (1) ORBITER FUSELAGE							
X/LB	PHI	X/LB	PHI	X/LB	PHI						
165.000	.0000	.5873	.6626	.7580	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
170.000	.0000	.5873	.6626	.7580	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
175.000	.0000	.5873	.6626	.7580	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
180.000	.0000	.5873	.6626	.7580	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392

AMES 97-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (R8081R)

MACH (1) = 1.555 BETAT (2) = -6.340

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
140.000	1.4190	.9885	.4520	-.1230	.0480	.0060			-.0170		-.0780	-.0710	-.0030	.0350	-.0780
20.000			.5410	.0030	.0830	.0190			-.0250		-.0550				
40.000			.6920	.0870	.2560	.0460			-.0770		-.0630	-.1370	.0650	-.0110	.0280
55.000			.7440	.1840	.3680	.0320			.1800		.1340				
70.000			.7330	.2270	.3670	.2820			.3110		.1340	-.1190	-.1740	.0440	.1630
90.000	1.1970	.6820	.2190	.3750	.3210				.4150		.1110	-.1380	-.1450	.0140	.0470
120.000			.6130	.2170	.3810	.5340			.5670		.0920	-.1540	-.1150	-.0920	.0190
142.000															
150.000			.5540	.1660	.3640	.8960			.7600		-.0590	-.1230	.0420	-.0850	.0010
157.000							1.0190								
162.000									.6800						
165.000									.5050						
169.000															
172.000															
180.000	1.4190	.9720	.3920	.1770	.2890	.8360	1.1770		.7780		-.2300	-.0570	-.0860	-.0780	.0020

X/LB .5875 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI

140.000	-.1470														
40.000	-.0320	.1560	.1050	.1140	-.0920	-.3020									
70.000		-.0690	-.0250	-.0700	.0540	.0470	.0040		-.0150						
90.000		-.0220	.0260	.1160	.0550	.0360	-.0290	-.0340							
115.000				.1960	.1290	.0350	-.0450	-.0550							
110.000									.0450						
120.000			-.0010	-.0170	.4510	.1940	-.0380	-.0290	.0260						
135.000				.4670	.3510	-.0940	-.0310	.1460							
150.000			-.0090	-.0270	.2030	-.0480	.1960	.2030							
165.000			.0060	.2430	.4170	.2430	.2710	.0370							
180.000			-.1640	-.0280	.0790										

MACH (1) = 1.555 BETAT (3) = -4.250

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
140.000	1.4320	1.0130	.4640	-.1220	-.0160	.0270			.0360		-.0450	-.0490	.0320	.0340	-.0870
20.000			.5280	-.0220	.0250	.0340			.0200		-.0310				
40.000			.6400	.0160	.1870	.0590			-.0510		-.0470	-.1200	.0460	.0020	.0010
55.000			.6710	.0920	.2680	.2140			.1650		.1130				
70.000			.6570	.1370	.2690	.2610			.2930		.0950	-.1300	-.1980	-.0590	.0460
90.000	1.1420		.6040	.1430	.2780	.2980			.3880		.0790	-.1640	-.1710	-.0300	.0260
120.000			.5590	.1440	.3090	.5230			.5110		.0820	-.1730	-.1420	-.1070	.0090

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 OCA + S3 + T9 ORBITER FUSELAGE

(R00018)

MACH (1) = 1.555 BETAT (3) = -4.250

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CF													
X/LB	.0000	.0075	.0108	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3230	.3953	.5120
PHI															
142.000															
150.000															
157.500															
162.000															
165.000															
169.000															
172.000															
180.000	1.4320	0.9860	0.4040	0.1700	0.2860	0.9610									
							1.1410								
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					

MACH (1) = 1.555 BETAT (4) = -1.180

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CF													
X/LB	.0000	.5075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3230	.3953	.5120
PHI															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															

1.1290

(RD-818)

DATE 20 SEP 73 TABULATED PRESSURE DATA - 1A9B
 AMES 97-717 1A9 C2A + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.555 BETAT (6) = 5.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5673	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392
PHI		.2940	.4560	.1520	.0710	-.1290				
165.000	-.07990									
180.000	-.11000	-.0540	.1240							

MACH (1) = 1.555 BETAT (7) = 8.020

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.04075	.05188	.0339	.0652	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5125
PHI		.4570	-.0550	.1620	-.0280				-.0960	-.1250	.0090	-.0680	-.0460	-.1070	-.1310
20.000	.3740	-.0970	.1030	-.0580					-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
40.000	.3090	-.0980	-.0760	-.0580					-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
60.000	.2540	-.1250	-.1380	.0710					-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
80.000	.1990	-.1930	-.1750	.1330					-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
100.000	.1790	-.2060	-.1640	.2100					-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
120.000	.2310	-.1040	-.0440	.2160					-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
142.000	.3210	.0380	.1420	.5010					-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
150.000				.5960					-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
157.000									-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
162.000									-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
165.000									-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
169.000									-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
172.000									-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
180.000	1.4020	.9800	.3810	.1870	.3090	.8290			-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
X/LB	.5673	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392					

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.04075	.05188	.0339	.0652	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5125
PHI		.4570	-.0550	.1620	-.0280				-.0960	-.1250	.0090	-.0680	-.0460	-.1070	-.1310
20.000	.3740	-.0970	.1030	-.0580					-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
40.000	.3090	-.0980	-.0760	-.0580					-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
60.000	.2540	-.1250	-.1380	.0710					-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
80.000	.1990	-.1930	-.1750	.1330					-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
100.000	.1790	-.2060	-.1640	.2100					-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
120.000	.2310	-.1040	-.0440	.2160					-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
142.000	.3210	.0380	.1420	.5010					-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
150.000				.5960					-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
157.000									-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
162.000									-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
165.000									-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
169.000									-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
172.000									-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
180.000	1.4020	.9800	.3810	.1870	.3090	.8290			-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
X/LB	.5673	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392					

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.04075	.05188	.0339	.0652	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5125
PHI		.4570	-.0550	.1620	-.0280				-.0960	-.1250	.0090	-.0680	-.0460	-.1070	-.1310
20.000	.3740	-.0970	.1030	-.0580					-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
40.000	.3090	-.0980	-.0760	-.0580					-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
60.000	.2540	-.1250	-.1380	.0710					-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
80.000	.1990	-.1930	-.1750	.1330					-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
100.000	.1790	-.2060	-.1640	.2100					-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
120.000	.2310	-.1040	-.0440	.2160					-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
142.000	.3210	.0380	.1420	.5010					-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
150.000				.5960					-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
157.000									-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
162.000									-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
165.000									-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
169.000									-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
172.000									-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
180.000	1.4020	.9800	.3810	.1870	.3090	.8290			-.0960	-.1110	-.0680	-.1060	-.0460	-.1070	-.1310
X/LB	.5673	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392					

AVES 97-707 1A9 26A + S3 + T9 ORBITER FUSELAGE (RBD0918)

MACH (2) = 2.000 BETAT (2) = -6.274

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.00000	.00075	.01000	.03339	.06002	.10355	.15106	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
162.0000															
150.0000															
137.0000															
122.0000															
105.0000															
87.0000															
62.0000															
35.0000															
1.49900	1.1170	.5140	.2560	.2050	.6640	1.1320									
180.0000															
.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392						

SECTION (2) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.00000	.00075	.01000	.03339	.06002	.10355	.15106	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
162.0000															
150.0000															
137.0000															
122.0000															
105.0000															
87.0000															
62.0000															
35.0000															
1.49900	1.1170	.5140	.2560	.2050	.6640	1.1320									
180.0000															
.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392						

MACH (2) = 2.000 BETAT (3) = -4.230

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.00000	.00075	.01000	.03339	.06002	.10355	.15106	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
20.0000															
40.0000															
55.0000															
70.0000															
90.0000															
120.0000															
142.0000															
150.0000															
162.0000															
169.0000															
172.0000															
1.49900	1.1170	.5140	.2560	.2050	.6640	1.1320									
180.0000															
.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392						

SECTION (2) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.00000	.00075	.01000	.03339	.06002	.10355	.15106	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
20.0000															
40.0000															
55.0000															
70.0000															
90.0000															
120.0000															
142.0000															
150.0000															
162.0000															
169.0000															
172.0000															
1.49900	1.1170	.5140	.2560	.2050	.6640	1.1320									
180.0000															
.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392						

AMES 97-707 1A9 O2A + S3 + T9 ORBITER FUSELAGE

(R80819)

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
MACH (1) =	1.555	BETAT (2) =	-6.270												
X/LB	.0000	.0075	.0100	.0339	.0602	.1355	.1556	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI	1.3660	1.0110	.4930	-.0910	.0450	.0140			-.0390		-.1020	-.1270	-.0490	-.0550	-.0620
20.000	.5690	.0260	.1020	.0080	.0090				-.0390		-.1030	-.1270	.0750	.0070	.0040
40.000	.7130	.0680	.2770	.0430					-.0830		.1070				
55.000	.7530	.1950	.3770	.1990					.1030		.1100	-.1280	-.1870	.0170	.0210
70.000	.7920	.2530	.3600	.2400					.2240		.0920	-.1630	-.1710	-.0180	-.0050
90.000	.6520	.2130	.3510	.2730					.3640		.0450	-.1760	-.1520	-.1390	-.0340
120.000	.5440	.1630	.3160	.3640					.5030		-.0160				
142.000	.4640	.0870	.2750	.7420					.7010		-.1140	-.1680	.0020	-.1380	-.0480
150.000				.9740					.6210		-.2510	-.0930	-.1350	-.1240	-.0400
157.000									.4780						
162.000									.7020						
169.000															
172.000	1.3660	.8720	.3010	.0930	.1960	.6840		1.1010							
180.000	.5870	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
X/LB															
PHI	-.1150		.2380	.2020	-.0420	-.2720			-.0780		-.0650				
40.000	-.0010	.2650	-.0930	-.1320	-.0060	-.0930	-.0610				-.0750				
70.000	-.0690	-.0780	.0510	.0280	.0010	-.0530	-.0750								
90.000	-.0680	-.0420	.1660	.1150	.0010	-.0940	-.0960								
105.000							.0570								
110.000	-.0570	-.0720	.4820	.1550	-.0540	-.0810	-.0840								
120.000			.3550	.2590	-.1460	-.1070	.0730								
135.000		-.0620	.1400	.1360	-.0620	.1120	.1280								
150.000	-.0390	.1840	.3110	.1930	.1770	-.0270									
165.000	-.2260	-.0620	.1070												
180.000															
MACH (1) =	1.555	BETAT (3) =	-4.240												
SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.0000	.0075	.0100	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI	1.3800	1.0300	.4910	-.1080	-.0580	.0330			.0180		-.0780	-.1230	-.1320	.0260	-.0380
20.000	.5460	-.0080	.0210	.0220					.0110		-.0720				
40.000	.6490	-.0020	.2060	.0310					-.0790		-.0530	-.1220	.0640	-.0230	.0350
55.000	.6730	.1140	.2910	.1790					.0790		.0870				
70.000	.6450	.1610	.2710	.2150					.2180		.0760	-.1530	-.2140	-.0330	-.0110
90.000	.5760	.1450	.2440	.2450					.3380		.0730	-.1850	-.1960	-.0760	-.0290
120.000	.4910	.1110	.2520	.3970					.4570		.0340	-.1950	-.1810	-.1590	-.0410

DATE 20 SEP 73 TABULATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 OCA + S3 + T9 ORBITER FUSELAGE (RBOB19)

MACH (1) = 1.555 BETAT (5) = 3.950

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/LB	.5873	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392
PHI										
70.000	-.1020	-.0990	-.0900	-.0290	-.0460	-.0290	-.0290	-.0530		
90.000	-.0690	-.0710	.0460	-.0290	-.0770	-.0280	-.0490	-.0450		
105.000									.0210	
110.000									.0220	
120.000	-.0290	-.0530	.1810	-.0290	-.2020	-.0840	-.0660	-.0660		
135.000			.6510	.3130	-.1540	-.0430	-.0440	-.0440		
150.000	-.0190	-.0280	.3050	.3490	.0490	-.0330	-.0660	-.0660		
165.000	-.0670		.3170	.4780	.0970	.0180	-.1610	-.1610		
180.000	-.1820	-.0770	-.1360							

MACH (1) = 1.555 BETAT (6) = 5.992

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/LB	.0000	.0075	.0188	.0339	.0672	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
20.000	1.3760	1.0190	.5030	-.0740	.1180	.0020			-.0450	-.1330	-.0620	.0240	-.0710		
40.000			.4390	-.0910	-.0190	.0090			-.1240	-.0990	-.1110	-.0770	-.1030		
60.000			.3940	-.0920	-.0470	.0200			-.1670	-.0990	-.1950	-.0390	-.0390		
80.000			.3380	-.0970	-.0910	.0670			.1940	-.1620	-.2650	-.3070	-.0540		
100.000			.2740	-.1180	-.1240	.1280			.2410	-.0460	-.2950	-.2160	-.1220		
120.000	.7770		.2320	-.1700	-.1220	.1650			.1750	-.1100	-.2950	-.2160	-.1220		
140.000			.2330	-.1920	-.0400	.3590			-.3020	-.3130	-.2510	-.1620	-.1640		
160.000			.2850	-.0150	.0880	.5120			.4560	-.3790	-.2830	-.1260	-.1530	-.1340	
180.000	1.3760	.6960	.3000	.1020	.2060	.7120			.3780	-.3340	-.2010	-.2070	-.2030	-.1840	

X/LB	.5873	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392
PHI										
40.000	-.1230									
60.000	-.1330	.1340	-.0670	-.1260	-.2410	-.2070				
80.000	-.0520	-.0190	-.0140	.0490	-.0190	-.0740	-.1080			
100.000	-.0640	.0290	.0940	.0110	-.0290	-.0910	-.1030			
120.000			.1190	.0380	-.0260	-.1130	-.1120			
140.000			.2580	.0340	-.1800	-.1170	-.0940			
160.000	-.0350	.0650	.7640	.3780	-.1180	-.0950	-.1010			
180.000	-.1000	-.0490	.1910	.3070	.0960	-.0090	-.0280			

(R80819)

AMES 97-707 IAS OCA + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.0000 BETAT (4) = -1.40

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000	-.0600	-.0740	-.0720	-.0900	-.0380	-.0630	-.0770			
90.000	-.0370	-.0370	.0240	-.0170	-.0610	-.0810				
105.000		.0620	.0370	-.0180	-.0690	-.0980				.0680
110.000										
120.000	-.0160	-.0260	.0190	.0270	-.0630	-.0690	-.0610	-.0070		
135.000		.4280	.3240	-.0640	-.0250	.0230				
150.000	-.0300	-.0210	.0180	.0190	.0630	.0580				
165.000	-.0350		.1830	.3520	.0860	.1310	-.0290			
180.000	-.0430	-.0240	.0140							

MACH (2) = 2.0000 BETAT (5) = 3.930

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0672	.1355	.1556	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
1.000	1.4180	.9200	.5120	.0970	.0160	.2020			.1100	.0320	-.0110	-.0820	-.0730		
20.000		.4900	.1150	.0150	.2160				.1400	.0930	-.0030	-.0450	-.1190	-.1410	
40.000		.4610	.1140	.0580	.1940				.1350	.1280					
55.000			.4130	.1140	.0780	.0830			.1500	.1490	-.0480	-.1240	-.1200	-.0720	
70.000			.3680	-.0190	.0260	.0680			.1990	.1270	-.0750	-.1210	-.1230	-.0870	
90.000		.8630	.3460	-.0280	-.0140	.0970			.2640	.0110	-.1050	-.1100	-.0940	-.0680	
120.000		.3770	.0640	.0340	.0840				.2050	-.1130					
142.000		.4210	.0980	.1420	.2340				.5350	-.1510	-.1680	.0000	-.0230	-.0490	
150.000								.7070							
157.000									.5820						
162.000										-.2010	-.1710	-.0960	-.0160	-.0530	
165.000									.6480						
169.000															
172.000															
180.000	1.4180	1.0140	.4140	.1770	.2130	.4980	.8640		.8650	-.1710	-.1390	-.0860	-.0860	-.0860	-.0860

MACH (2) = 2.0000 BETAT (5) = 3.930

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0672	.1355	.1556	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
1.000	1.4180	.9200	.5120	.0970	.0160	.2020			.1100	.0320	-.0110	-.0820	-.0730		
20.000		.4900	.1150	.0150	.2160				.1400	.0930	-.0030	-.0450	-.1190	-.1410	
40.000		.4610	.1140	.0580	.1940				.1350	.1280					
55.000			.4130	.1140	.0780	.0830			.1500	.1490	-.0480	-.1240	-.1200	-.0720	
70.000			.3680	-.0190	.0260	.0680			.1990	.1270	-.0750	-.1210	-.1230	-.0870	
90.000		.8630	.3460	-.0280	-.0140	.0970			.2640	.0110	-.1050	-.1100	-.0940	-.0680	
120.000		.3770	.0640	.0340	.0840				.2050	-.1130					
142.000		.4210	.0980	.1420	.2340				.5350	-.1510	-.1680	.0000	-.0230	-.0490	
150.000								.7070							
157.000									.5820						
162.000										-.2010	-.1710	-.0960	-.0160	-.0530	
165.000									.6480						
169.000															
172.000															
180.000	1.4180	1.0140	.4140	.1770	.2130	.4980	.8640		.8650	-.1710	-.1390	-.0860	-.0860	-.0860	-.0860

MACH (2) = 2.0000 BETAT (5) = 3.930

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0672	.1355	.1556	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
1.000	1.4180	.9200	.5120	.0970	.0160	.2020			.1100	.0320	-.0110	-.0820	-.0730		
20.000		.4900	.1150	.0150	.2160				.1400	.0930	-.0030	-.0450	-.1190	-.1410	
40.000		.4610	.1140	.0580	.1940				.1350	.1280					
55.000			.4130	.1140	.0780	.0830			.1500	.1490	-.0480	-.1240	-.1200	-.0720	
70.000			.3680	-.0190	.0260	.0680			.1990	.1270	-.0750	-.1210	-.1230	-.0870	
90.000		.8630	.3460	-.0280	-.0140	.0970			.2640	.0110	-.1050	-.1100	-.0940	-.0680	
120.000		.3770	.0640	.0340	.0840				.2050	-.1130					
142.000		.4210	.0980	.1420	.2340				.5350	-.1510	-.1680	.0000	-.0230	-.0490	
150.000								.7070							
157.000									.5820						
162.000										-.2010	-.1710	-.0960	-.0160	-.0530	
165.000									.6480						
169.000															
172.000															
180.000	1.4180	1.0140	.4140	.1770	.2130	.4980	.8640		.8650	-.1710	-.1390	-.0860	-.0860	-.0860	-.0860

DATE 20 SEP 73 TABULATED PRESSURE DATA - 1A9B

(RBOB19)

AMES 97-707 1A9 O2A + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.500 BETAT (5) = 3.930

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PMI
165.000 -.0660 .1660 .4210 .1190 .0490 -.0490
180.000 -.0990 -.0970 .0760

MACH (2) = 2.500 BETAT (6) = 5.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .0075 .0188 .0339 .0612 .1355 .1506 .1581 .1732 .1938 .2259 .2711 .3200 .3953 .5120

PMI
0.000 1.4170 .9540 .5290 .0980 .0000 .1880 .0830 .0710 .0170 -.0270 -.0640 -.0400
20.000 .4880 .0970 -.0290 .1970 .0860 .0680 .0680
40.000 .4300 .0960 -.0140 .1410 .1320 .0720 -.0330 -.0730 -.1260 -.0480
55.000 .3550 .0960 .0030 .0610 .1320 .1130
70.000 .3080 -.0600 .0410 .1710 .1410 .1410 -.0610 -.1340 -.2310 -.0680
90.000 .2880 -.0690 -.0560 .0290 .1550 .170 .0820 -.1280 -.1970 -.0860
120.000 .3230 .0370 -.0030 .0160 .1260 .0550 -.1350 -.1080 -.0830 -.0800
142.000 .3820 .0860 .1110 .3320 -.1450
150.000 .7040
162.000 .5520
165.000 .6340
169.000 .8510
172.000 .8510
180.000 1.4170 1.0100 .4050 .1750 .2030 .5350 .9450 .9262 .9639 1.0015 1.0392

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PMI
40.000 -.0650
70.000 -.0650
90.000 -.0500
105.000 .0100
120.000 .0590
135.000 .0840
150.000 -.1040
165.000 .1180
180.000 .1070

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PMI
40.000 -.0650
70.000 -.0650
90.000 -.0500
105.000 .0100
120.000 .0590
135.000 .0840
150.000 -.1040
165.000 .1180
180.000 .1070

(REB020) (24 MAY 73)

AMES 97-707 1A9 ORA + S3 + T9 ORBITER FUSELAGE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .000
RUDDER = -10.000 ELEVON = .000
RUDEFUR = .000

REFERENCE DATA

SWP = 2.4210 98.FT. XWRP = 28.5300 INCHES
LWRP = 39.8490 INCHES YWRP = .0000 INCHES
BWRP = 39.8490 INCHES ZWRP = .0000 INCHES
SCALE = .0300 SCALE

MACH (1) = 1.555 BETAT (1) = -8.300

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0375	.0188	.0339	.0802	.1355	.1506	.1581	.1732	.1938	.2259	.2711	.3200	.3995	.5120
PHI	1.2870	1.0850	.5680	-.0930	-.0560	-.0280									
20.000	.7030	.1081	.0990	-.0440											
40.000	.8290	.1880	.2970	-.0140											
55.000	.8620	.3640	.4150	.1730											
70.000	.8140	.4080	.3810	.2010											
90.000	1.1650	.7000	.2990	.3790	.2310										
120.000	.5200	.1750	.3140	.2550											
142.000	.3900	.0340	.2270	.6020											
150.000								.8910							
157.000															
162.000															
165.000															
169.000															
172.000															
180.000	1.2870	.7390	.1930	.0010	.1000	.5160									
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI	.0370														
40.000	.0560	.4900	.2740	.2590	-.0080	-.2510									
70.000															
90.000															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															

-.0420
-.0950

.0950
-.0310

-.1140
-.0640
-.0949
-.1240
-.0950
-.1010
-.0030
-.1950
-.0950
-.1460
-.0510
-.0340
-.0990
-.1370
-.0340
-.1130

.5570
.3720

.6940

.5720

1.0015 1.0392

DATE 20 SEP 73 TABULATED PRESSURE DATA - 1A90

AMES 97-707 1A9 CCA + S3 + T9 ORBITER FUSELAGE (RBC020)

MACH (1) = 1.555 BETAT (3) = -4.220

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0166	.0352	.0602	.1355	.1906	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PMI															
142.000															
150.000															
157.500															
162.500															
165.000															
169.500															
172.500															
180.000															
X/LB	.5075	.6626	.7380	.7669	.8283	.8848	.9262	.9639	1.0015	1.0392					

MACH (1) = 1.555 BETAT (4) = -1.130

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0166	.0352	.0602	.1355	.1906	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PMI															
142.000															
150.000															
157.500															
162.500															
165.000															
169.500															
172.500															
180.000															
X/LB	.5075	.6626	.7380	.7669	.8283	.8848	.9262	.9639	1.0015	1.0392					

MACH (1) = 1.555 BETAT (4) = -1.130

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0166	.0352	.0602	.1355	.1906	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PMI															
142.000															
150.000															
157.500															
162.500															
165.000															
169.500															
172.500															
180.000															
X/LB	.5075	.6626	.7380	.7669	.8283	.8848	.9262	.9639	1.0015	1.0392					

DATE 20 SEP 73

TABLATED PRESSURE DATA - IA99

AMES 97-707 1A9 OEA + S3 + T9 ORBITER FUSELAGE

(RBC82D)

MACH (1) = 1.555 BETAT (4) = -.130

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP	
X/LB			
PMI			
180.000	1.3380	.7790	.2100
X/LB	.5873	.6626	.7380
		.8263	.8848
		.9262	.9639
		1.0015	1.0392
		.6400	
		.1732	.1938
		.2259	.2711
		.3200	.3953
		.5120	
		-.1580	-.1620
		-.2950	-.1310
		-.3460	

PMI			
40.000	-.0090	.0800	-.1130
70.000	-.1300	-.1660	-.0740
90.000	-.0980	-.0200	-.0560
110.000	-.0640	.0030	-.0980
120.000	-.0490	.0200	-.1490
130.000	-.0370	.0160	-.1840
140.000	-.0290	.0130	-.2030
150.000	-.0220	.0090	-.2180
		-.0630	
		-.0520	
		-.0790	
		-.1510	
		-.1540	
		-.1680	
		.0040	
		-.0740	
		-.1270	
		-.0370	
		-.0290	
		-.1520	

MACH (1) = 1.555 BETAT (5) = 3.960

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP	
X/LB			
PMI			
20.000	1.3460	1.0970	.5790
40.000		.5320	-.0850
55.000		.4660	-.0490
70.000		.3840	-.0440
90.000		.2980	-.1150
120.000		.2350	-.1150
142.000		.2420	-.0660
150.000			
157.000			
162.000			
165.000			
169.000			
172.000			
180.000	1.3460	.6020	.2190
X/LB	.5873	.6626	.7380
		.7669	.8283
		.8848	.9262
		.9639	1.0015
		1.0392	
		.9510	
		.6960	
		.3740	
		.4180	
		.6160	
		1.3480	-.2810
		-.2170	-.1780
		-.1610	
		-.1670	-.1790
		-.3990	-.2820
		-.1640	-.1670
		-.2770	
		-.2800	-.2750
		.0000	-.1770
		-.1550	
		-.0180	-.0290
		-.1390	
		-.1360	-.1300
		-.0010	-.0150
		-.0160	
		.0070	-.2460
		-.3110	.1840
		-.2990	-.0730
		-.0240	-.3060
		-.2390	-.0760
		-.0920	-.2280
		-.2840	-.0800
		.2300	
		-.2770	
		.4820	
		.6860	
		.3740	
		.4180	
		.6160	
		-.0480	
		-.0470	
		-.0900	
		-.1540	
		-.1680	
		-.0300	-.1540
		.0020	
		.1150	

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TABLATED PRESSURE DATA - 1A98

AVES 97-757 1A9 02A + S3 + T9 ORBITER FUSELAGE

(RBC82D)

MACH (3) = 1.555 BETAT (5) = 3.963

SECTION : 1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

M/LB	.5875	.6626	.7360	.7869	.8288	.8648	.9262	.9839	1.0015	1.0392
PMI										
70.000	-.1110	-.1200	-.1300	-.0670	-.0210	-.0760	-.0760	-.1110		
90.000	-.0760	-.0840	-.0920	-.0430	-.0430	-.0760	-.1120	-.1040		
110.000									.0370	
120.000	-.0310	-.0350	-.0420	-.0420	-.1540	-.1130	-.0910	-.0350		
135.000										
140.000	-.0270	-.0300	-.0320	-.0310	-.0280	-.0450	-.0450			
160.000	-.0420	-.0240	-.0240	-.0310	-.0920	-.0340	-.1580			
180.000	-.1350	-.0960	-.1270							

MACH (3) = 1.555 BETAT (6) = 6.010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

M/LB	.0100	.0175	.0188	.0339	.0612	.1355	.1516	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PMI															
80.000	1.3380	1.0723	.5490	-.0770	-.0230	.0170									
80.000	.4790	-.0990	-.0970	-.0970	.0130										
81.000	.4320	-.0960	-.1190	.0170											
95.000	.3590	-.0870	-.1390	.0260											
71.000	.2790	-.1210	-.1510	.0920											
90.000	.2070	-.1730	-.1380	.1190											
120.000	.1740	-.1380	-.0820	.3140											
142.000			.1980	-.0920	.0130	.4640									
150.000							.6450								
157.000															
182.000															
185.000															
169.000							.6930								
172.000															
180.000	1.3380	.7840	.8090	.0140	.1180	.5920									

M/LB	.5875	.6626	.7360	.7869	.8288	.8648	.9262	.9839	1.0015	1.0392
PMI										
80.000										
80.000	-.0430									
70.000	.1280	.0030	-.0760	-.1620	-.1520					
70.000	-.0190	-.0660	-.0790	-.0190	-.0180	-.1510				
90.000	.0170	-.0170	.0460	-.0910	-.0690	-.1230	-.1450			
110.000			.1090	.0050	-.0770	-.1510	-.1540			
110.000										
120.000	.0470	.0320	.2780	.0100	-.1690	-.1540	-.1310	-.0970		
120.000			.5690	.3750	-.1360	-.1070	-.1060			
135.000	-.0310	.0210	.2860	.3260	-.0410	-.0230	-.0520			

DATE 20 SEP 73 TABULATED PRESSURE DATA - 1A9B AMES 97-707 1A9 OZA + S3 T9 ORBITER FUSELAGE (RB0820)

MACH (1) = 1.555 BETAT (6) = 6.010

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.9073	.6626	.7380	.7069	.8283	.8848	.9262	.9639	1.0015	1.0392
PMI										
105.120				.3280	.4150	.1100	.0670	-.1320		
180.000				-.1610	-.0520	.0850				

MACH (1) = 1.555 BETAT (7) = 6.080

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0220	.0275	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3270	.3953	.5120
PMI															
105.120				.5240	-.0740	-.0720	-.1020	-.1020	-.0980	-.0750	-.1210	-.0060	-.1090	-.0060	
180.000				-.4350	-.1250	-.0910	-.0330	-.0640	-.0650	-.1330	-.1470	-.1780	-.1060	-.0460	-.0380
105.120				.3670	-.1280	-.1570	-.0540	-.0080	-.0310	-.0310	-.0310	-.2750	-.3430	-.2140	-.0010
180.000				-.2870	-.1370	-.1780	-.0110	.1310	.2000	-.0720	-.2990	-.3320	-.2390	-.0240	
105.120				.2730	-.1730	-.2030	.0830	.2000	.2000	-.1540	-.3260	-.2980	-.2380	-.0160	
180.000				-.6690	.1360	-.2240	-.1920	.1320	.0960	-.3420	-.3670	-.3080	.0270	-.1810	-.1070
105.120				.1140	-.1950	-.1270	.2810	.3190	.3190	-.4130	-.3370	-.2580	-.2070	-.1790	
180.000				.1540	-.1160	-.0100	.3640	.5690	.3000	-.4130	-.3370	-.2580	-.2070	-.1790	
105.120				.1570					.3770	-.3870	-.2980	-.2970	-.3410	-.2140	
180.000				.1620				.8290	.5630						
105.120				.1650											
180.000				.1690											
105.120				.1720											
180.000				.1800											

MACH (1) = 1.555 BETAT (8) = 6.150

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7069	.8283	.8848	.9262	.9639	1.0015	1.0392
PMI										
105.120				-.0150	-.1490	-.1460	-.1470	-.1230	-.0800	-.1490
180.000				.0770	-.1060	-.0920	-.1020	-.1420	-.1820	-.1490
105.120				-.1480	-.0950	-.0930	-.1210	-.1750	-.1890	-.1490
180.000				-.0350	-.0710	.1870	-.1460	-.1220	-.2030	-.2030
105.120				.1940	-.1650	.2560	-.0420	-.2230	-.2140	-.1870
180.000				.5330	.3790	-.1740	-.1570	-.1520	-.1520	-.1520
105.120				-.0290	-.0320	.2340	.2310	-.1610	-.0310	-.1610
180.000				-.0120	.2840	.3540	.0280	-.0230	-.2140	-.2140
105.120				-.1100	-.0770	-.1230				

TABLATED PRESSURE DATA - 1A98

(RBOG20)

AMES 97-707 1A9 O&A + S3 + T9 ORBITER FUSELAGE

DATE 20 SEP 73

MACH (2) = 2.000 BETAT (3) = -4.200

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	PHI	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500	5.000	5.500	6.000	6.500	7.000	7.500	8.000	8.500	9.000	9.500	10.000	
100.000	1.3670	.0990	.3350	.1200	.1360	.4220	.7770	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120						
PHI																					
40.000	.0620	.0290	.1600	.0980	.1270	-.0930	-.0770	-.0610													
70.000	.0630	-.0960	-.1120	-.0390	-.0760	-.0670	-.0670	-.0670													
90.000	-.0420	-.0640	-.0440	.0260	.0260	-.0620	-.0820	-.0820													
110.000	.0500	.0500	.1040	.0700	.0260	-.0560	-.0880	-.0880													
120.000	.0610	-.0710	.0930	.1970	-.0170	-.0520	-.0630	-.0190													
130.000	.2590	.2480	-.0700	-.0700	-.1050	-.0570	-.0570	-.0570													
150.000	-.0390	-.0930	.0680	.0870	-.0980	.0150	.0510	.0510													
165.000	-.0380	.0740	.2370	.1100	.1150	-.0180	-.0180	-.0180													
180.000	-.0790	-.0780	.0500																		

MACH (2) = 2.000 BETAT (4) = -1.130

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	PHI	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500	5.000	5.500	6.000	6.500	7.000	7.500	8.000	8.500	9.000	9.500	10.000	
100.000	1.3660	.0910	.3270	.1140	.1300	.3840	.7730	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120						
PHI																					
40.000	.0630	.1460	-.0170	.2840	.2420	.2420	.2420	.2420													
70.000	.0570	.1980	.0420	.2590	.2140	.2140	.2140	.2140													
90.000	.0310	.1990	.1110	.2240	.1120	.1120	.1120	.1120													
110.000	.0770	.2150	.1480	.1880	.1370	.1370	.1370	.1370													
120.000	.0200	.0940	.1040	.1870	.1640	.1640	.1640	.1640													
130.000	.0610	.0510	.0810	.2120	.2370	.2370	.2370	.2370													
150.000	.0460	.0720	.0700	.1840	.3940	.3940	.3940	.3940													
162.000	.0000	.0770	.1100	.3510	.6180	.6180	.6180	.6180													
150.000					.7430	.7430	.7430	.7430													
157.000					.5780	.5780	.5780	.5780													
162.000					.5690	.5690	.5690	.5690													
165.000					.7730	.7730	.7730	.7730													
169.000					.7720	.7720	.7720	.7720													
172.000					.9639	.9639	.9639	.9639													
180.000	1.3660	.0910	.3270	.1140	.1300	.3840	.7730	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120						
PHI																					
40.000	.0630	.1460	-.0170	.2840	.2420	.2420	.2420	.2420													
70.000	.0570	.1980	.0420	.2590	.2140	.2140	.2140	.2140													
90.000	.0310	.1990	.1110	.2240	.1120	.1120	.1120	.1120													
110.000	.0770	.2150	.1480	.1880	.1370	.1370	.1370	.1370													
120.000	.0200	.0940	.1040	.1870	.1640	.1640	.1640	.1640													
130.000	.0610	.0510	.0810	.2120	.2370	.2370	.2370	.2370													
150.000	.0460	.0720	.0700	.1840	.3940	.3940	.3940	.3940													
162.000	.0000	.0770	.1100	.3510	.6180	.6180	.6180	.6180													
150.000					.7430	.7430	.7430	.7430													
157.000					.5780	.5780	.5780	.5780													
162.000					.5690	.5690	.5690	.5690													
165.000					.7730	.7730	.7730	.7730													
169.000					.7720	.7720	.7720	.7720													
172.000					.9639	.9639	.9639	.9639													
180.000	1.3660	.0910	.3270	.1140	.1300	.3840	.7730	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120						

DATE 25 SEP 73

TABLATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 CGA + S3 + T9 ORBITER FUSELAGE

(R000820)

MACH (2) = 2.000 BETAT (5) = 3.950

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI
165.000 -.0990 .1340 .4050 .5170 .5270 -.0700
180.000 -.5830 -.0610 .0350

MACH (2) = 2.000 BETAT (6) = 5.990

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392
PHI
20.000 1.3200 .9780 .5820 .1120 -.0100 .1710 .0780
40.000 .5510 .1120 -.0510 .2020 .0830
60.000 .4720 .1090 -.0370 .1580 .0870
80.000 .3860 .1010 -.0170 .1470 .0850
100.000 .3070 -.1460 -.0410 .0330 .1330
120.000 .2550 -.0790 -.0540 .0270 .2080
140.000 .2560 -.0350 -.0470 .0220 .1470
160.000 .2970 .0170 .0460 .0270 .3780
180.000 .1570 .0000 .5570 .4590

165.000 .0930 -.0780 -.0970 -.0860 -.0350
180.000 -.5420 -.0810 -.1190 -.1610 -.0140
200.000 .0420
220.000 .0920 -.0930 -.1550 -.1650 -.1050
240.000 .0970 -.1110 -.1570 -.1620 -.1140
260.000 .0140 -.1350 -.1630 -.1260 -.1150
280.000 -.0970 -.2110 .0220 -.0720 -.0910
300.000 .4590
320.000 .5320
340.000 .2370 -.2150 -.1370 -.0740 -.1090
360.000 .7130
380.000 -.2640 -.1730 -.1410 -.2090 -.1150

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI
40.000 -.0630
60.000 .0350
80.000 .1120
100.000 .0690
120.000 .0690
140.000 .1370
160.000 .5190
180.000 .1460
200.000 .0540
220.000 .1330

PHI
40.000 -.0690
60.000 .1120
80.000 .0690
100.000 .0690
120.000 .1370
140.000 .5190
160.000 .1460
180.000 .0540
200.000 .1330
220.000 .1110
240.000 -.1350
260.000 -.1170
280.000 -.1210
300.000 -.1350
320.000 .0290
340.000 -.0670
360.000 -.0800
380.000 -.0630
400.000 -.0990
420.000 -.0120
440.000 -.0990
460.000 -.0380
480.000 -.1180
500.000 -.1180
520.000 -.1070
540.000 -.1160

MACH (1) = 1.555 BETAT (2) = -6.290

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2780	1.1270	.5700	-.0630	-.1085	.0100			-.0740	-.0420	-.1470	-.1270	-.1920	.0180	
20.000			.7090	.0820	-.0750	-.0010			-.0840	-.0190	-.0970	.0020	.0300	.0470	
40.000			.8360	.1980	.2360	-.0180			.0410	.1750					
55.000			.8470	.2840	.3420	.1310			.1760	-.1630	-.1630	-.0400			
70.000			.7380	.3290	.2970	.1590			.0910	-.1360	-.1780	-.0970	-.0650		
90.000		1.0950	.6140	.2040	.3560	.1060			-.0150	-.2150	-.2170	-.1730	-.1430		
120.000			.4380	.1060	.2380	.2010			-.0230						
142.000			.3280	-.0160	.1530	.5580			.5960	-.1960	-.2350	.0020	-.1930	-.1230	
150.000							.8650								
157.000									.5230						
162.000										-.2700	-.1560	-.1910	-.1660	-.1790	
165.000															
169.000															
172.000							.8670								
180.000	1.2780	.7070	.1630	-.0282	.0730	.5210			.5770	-.4010	-.2860	-.2300	-.2940	-.1760	

X/LB .5873 .6626 .7381 .7869 .8283 .8848 .9262 .9639 1.0015 1.0092

MACH (1) = 1.555 BETAT (3) = -4.230

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3940	1.2070	.5340	-.1550	-.1870	.0530			.0500	-.0530	-.1950	-.1950	.0180	.0470	
20.000			.6530	-.0230	-.1070	.0120			-.0710	-.0070	-.0070	.0560	-.0050	.1980	
40.000			.7820	.0510	.1500	-.5820			-.1150	.1330					
55.000			.7900	.1580	.2660	.1050			.0210	.0700	-.1250	-.1920	-.0610	-.0560	
70.000			.6780	.2060	.2120	.1330			.0680	.0490	-.1690	-.2140	-.1160	-.0890	
90.000		1.0030	.5360	.1120	.2210	.1630			.2290	-.0490	-.2360	-.2290	-.2040	-.1230	
120.000			.3780	.0640	.1760	.1930			.4160	-.0560	-.2360	-.2290	-.2040	-.1230	

X/LB .0000 .0075 .0188 .0339 .0602 .1355 .1506 .1581 .1732 .1958 .2259 .2711 .3200 .3953 .5120

(R80821)

TABLATED PRESSURE DATA - 1A9B
AMES 97-707 1A9 CCA + S3 + T9 ORBITER FUSELAGE

DATE 20 SEP 73

MACH (1) = 1.555
BETAT (3) = -4.230

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1561	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000									.5670						
150.000								.8580							
157.000															
162.000															
165.000															
169.000															
172.000															
180.000															

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI															
.000															
40.000															
70.000															
90.000															
105.000															
110.000															
120.000															
135.000															
150.000															
165.000															
180.000															

MACH (1) = 1.555
BETAT (4) = -.120

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP													
X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1561	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000															
20.000															
40.000															
55.000															
70.000															
90.000															
120.000															
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															

.9730

DATE 25 SEP 73

TABLATED PRESSURE DATA - IA9B

AMES 97-707 IA9 OCA + S3 + T9 ORBITER FUSELAGE

(R80821)

MACH (2) = 2.000 BETAT (1) = -0.310

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/LB	.0000	.0075	.0100	.0339	.0602	.1355	.1506	.1581	.1732	.1758	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.3020	1.0260	.6420	.1280	.0190	.1150		.0290			-.0390	-.0290	-.0650	-.0320	-.0100
20.000		.7110	.2750	.1550	.0800			.0210			-.0330	-.0270	-.0580	.1110	.1320
40.000		.8040	.3340	.4270	.1210			.0740			.1300				
55.000		.8100	.3900	.5180	.2930			.1940			.1940	.0160	-.0600	-.0160	.0770
70.000		.7720	.3910	.4460	.3120			.2350			.2350	-.0220	-.0760	-.0440	.0230
90.000		.6720	.2410	.4200	.3210			.2590			.1110	-.0550	-.0990	-.1080	-.0580
120.000		.5280	.1700	.2280	.2950			.5660		.1520					
142.000		.4250	.0940	.1660	.4240			.6960			-.0800	-.0710	.0000	-.0930	-.0910
150.000					.8220										
157.000								.6530			-.0680	-.0220	-.0540	-.0690	-.0860
162.000								.4820							
165.000															
169.000						.7100									
172.000					.0590	.4370									
180.000	1.3020	.7790	.2590	.0590	.0830	.4370		.6540			-.2140	-.1720	-.2630	-.2380	-.1390
X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					

-.0750
-.1630

PHI															
.000	-.0090														
40.000	.1190	.3155	.2580	.2000	-.0460			-.0750							
70.000	-.0000	-.0480	-.0740	-.0890	.0000	-.0340	-.0650								
90.000	-.0120	-.0440	-.0450	.0610	.0200	.0000	-.0500								
105.000			.1520	.1920	.0430	-.0180	-.0590								
110.000			.6030	.2680	.0330	-.0180	-.0480			.0630					
120.000			.1760	.1310	-.1260	-.1710	-.1660			-.0050					
135.000			.0280	-.0480	-.1830	-.1250	-.1140								
150.000		-.0770	-.0700	.0280	-.0480	-.1250	-.1140								
165.000		-.0090	.0470	.0900	.0100	.0790	-.0230								
180.000		-.1750	-.1490	-.1120											

MACH (2) = 2.000 BETAT (2) = -6.260

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/LB	.0000	.0075	.0100	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.2930	1.0200	.6400	.1430	.0210	.1710		.0610			.0240	-.0300	-.0780	-.0650	-.0300
20.000		.6890	.2630	.1450	.1270			.0560			-.0200	-.0630	-.1260	.0890	.0890
40.000		.7550	.2810	.4010	.1350			.0370			.0900				
55.000		.7480	.3360	.4800	.2630			.1780			.1680	-.0150	-.0890	-.0550	.0310
70.000		.7210	.3140	.3910	.2640			.2150			.2160	-.0460	-.0970	-.0780	-.0310
90.000		.6380	.1950	.3030	.2940			.2320			.0970	-.0740	-.1210	-.1170	-.0820
120.000		.5240	.1560	.2020	.2820			.5250							

AMES 97-707 1A9 OCA + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.500

BETAT (4) = -.120

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5673	.6826	.7380	.7869	.8283	.8648	.9282	.9639	1.0015	1.0392
PHI										
70.000	-.1090	-.1220	-.1230	-.0810	-.0770	-.1090	-.1110			
90.000	-.1690	-.0980	-.0130	-.0370	-.0520	-.0910	-.1190			
105.000			.0380	.0180	-.0520	-.1720	-.1260			.0050
110.000							-.0920			-.0390
120.000	-.0510	-.0430	.1620	.1070	-.0700	-.0960	-.0920			
135.000			.1910	.1820	-.0700	-.0420	-.0190			
150.000	-.0530	-.0420	.1280	.1490	.0100	.0050	-.0080			
165.000	-.0620		.1350	.1820	.0980	.0530	-.1660			
180.000	-.0720	-.0340	.0310							

MACH (2) = 2.000

BETAT (5) = 3.970

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0020	.0075	.0188	.0339	.0632	.1355	.1576	.1581	.1792	.1958	.2259	.2711	.3270	.3950	.5120
PHI															
0.000			.6120	.1670	.0310	.2070			.1030		.0640	-.0120	-.0550	-.1120	-.0820
20.000	1.3040	.9750	.5980	.1830	.0040	.2370			.1210		.0480	-.0620	-.1620	-.1390	.0340
40.000			.5520	.1820	.0490	.2310			.1790		-.0270				
55.000			.4760	.1820	.0730	.1180			.0890		.0830	-.0970	-.1540	-.1590	-.1110
70.000			.3940	.0220	.0270	.0750			.1250		.0850	-.1120	-.1630	-.1580	-.1220
90.000	.6050	.3220	-.0330	-.0120	.0620	.0620			.2110		.0370	-.1370	-.1500	-.1460	-.1120
100.000			.2870	-.0120	-.0250	.1830			.1780		-.1180				
120.000									.4240		-.1610	-.1680	.0320	-.1670	-.1020
142.000			.2940	.0160	.0450	.2020		.5110							
150.000									.4550		-.2310	-.1910	-.0820	-.1690	-.1020
157.000									.5040						
165.000									.6950						
169.000															
172.000															
180.000	1.3040	.6360	.2790	.0720	.0960	.3700	.6360	.9639	1.0015	1.0392					

MACH (2) = 2.500

BETAT (4) = -.120

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0650	.0550	.1020	-.1010	-.1210	-.0380	-.0940	-.0210	-.0350	-.0740	-.1280	-.0320	-.0630	-.0740	-.0910
PHI															
40.000	.0650														
60.000	.0550														
70.000			.1020	-.1090	-.0790	-.0440	-.1460								
90.000			-.1010	-.1080	-.0850	-.0910	-.1080	-.1240							
100.000			-.0700	-.0940	-.0750	-.0740	-.1060	-.1190							
110.000															
120.000			-.0590	-.0630	.1200	.0330	-.1070	-.1080	-.1020						
130.000					.4350	.3130	-.1080	-.1030	-.0740						
150.000			-.0810	-.0400	.1700	.3870	-.0910	-.0260	-.0430						

AMES 97-707 1A9 ORA + S3 + T9 ORBITER FUSELAGE

(RBC821)

MACH (2) = 2.5625 BETAT (7) = 8.070

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/LB	.0075	.0188	.0339	.0602	.1355	.1506	.1981	.1792	.1958	.2259	.2711	.3200	.3953	.5120
PMI														
.0000	1.2310	.9640	.5760	.1320	.0520	.1080	.0240	.0260	-.0620	-.0390	-.0830	-.0570	-.0270	
20.000														
40.000														
60.000														
80.000														
100.000														
120.000														
140.000														
160.000														
180.000														
200.000														
220.000														
240.000														
260.000														
280.000														
300.000														
320.000														
340.000														
360.000														
380.000														
400.000														
420.000														
440.000														
460.000														
480.000														
500.000														

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0115 1.0392

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0115	1.0392
PMI										
.0000	-.0390	.0320	-.0460	-.0920	-.0950	-.1160	-.0920	-.0920	-.0870	-.0970
40.000	-.0350	-.1075	-.1290	-.1300	-.0830	-.0590	-.0790	-.0790	-.0790	-.0790
70.000		-.0810	-.1010	-.0490	-.0830	-.0910	-.0780	-.0780	-.0780	-.0780
90.000			.0280	-.0500	-.0790	-.0930	-.0920	-.0920	-.0920	-.0920
110.000				.1510	.0230	-.1370	-.0650	-.0650	-.0650	-.0650
120.000				.4480	.2380	-.0740	-.0530	-.0530	-.0530	-.0530
130.000				-.1440	-.1550	-.0720	-.0990	-.0990	-.0990	-.0990
140.000				-.1630	-.0190	.1010	-.0590	-.0590	-.0590	-.0590
160.000				-.1890	-.1770	-.1250				

TABULATED PRESSURE DATA - 1A98

DATE 20 SEP 73

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE

(RBC822) (24 MAY 73)

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .000
RUDDER = -10.000 ELEVON = .000
RUDDLR = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

MACH (1) = 1.555 BETAT (1) = -8.360

SECTION (1) ORBITER FUSELAGE DEFLECTION VARIABLE CP

X/LB	PHI	DEFLECTION	CP	PHI	DEFLECTION	CP
00.000	1.3650	1.1630	.5460	-1.350	-.1840	-.0150
20.000		.7480	.0750	-.0650	-.1130	
40.000		.9930	.2280	.2520	-.0780	
55.000		1.1020	.3730	.3940	.1320	
70.000		.8770	.4310	.3100	.1680	
90.000		1.1590	.6570	.2600	.3090	.1830
120.000			.4220	.1160	.2340	.1620
142.000			.2830	-.0300	.1420	.4380
150.000					.7850	
157.000						.4850
162.000						.3010
169.000					.7780	
172.000						.4810
180.000						1.0015
X/LB	.5873	.6626	.7380	.7869	.8283	.8848
				.9262	.9639	1.0015
						1.0392

PHI	DEFLECTION	CP	PHI	DEFLECTION	CP
.500	.1400				
40.000	.2020	.4890	.3790	.2740	-.0260
70.000		-.0910	-.1170	-.1140	-.0940
90.000		-.1010	-.0970	-.0250	.0050
105.000			.1050	.1800	.0040
110.000			.6440	.1820	-.0560
120.000			.1710	.1110	-.2350
135.000			-.0960	.0520	-.1130
150.000			-.0860	.1260	.0350
165.000			-.0890	-.0260	.1530
180.000					

PHI	DEFLECTION	CP	PHI	DEFLECTION	CP
.500					
40.000					
70.000					
90.000					
105.000					
110.000					
120.000					
135.000					
150.000					
165.000					
180.000					

AMES 97-707 1A9 O2A + S3 + T9 ORBITER FUSELAGE (RBO022)

MACH (1) = 1.555 BETAT (2) = -6.310

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0612	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI	1.2980	1.2260	.5820	-.1270	-.1730	.0320	.0040	.0040	.0040	.0040	-.0480	-.1420	-.1150	-.0720	.0690
20.000	.7580	.0420	-.0990	.0290	.0290	.0070	.0070	.0070	.0070	.0070	-.0480	-.1420	-.1150	-.0720	.0690
40.000	.9000	.1840	-.2100	-.0620	.0000	-.0230	-.0230	-.0230	-.0230	-.0230	-.0480	-.1420	-.1150	-.0720	.0690
55.000	.9020	.2970	.3300	.1090	.0000	.0230	.0230	.0230	.0230	.0230	-.0480	-.1420	-.1150	-.0720	.0690
70.000	.7640	.3520	.2480	.1390	.0000	.0590	.0590	.0590	.0590	.0590	-.0480	-.1420	-.1150	-.0720	.0690
90.000	.6040	.1910	.2640	.1500	.0000	.1320	.1320	.1320	.1320	.1320	-.0480	-.1420	-.1150	-.0720	.0690
120.000	.3920	.0820	.2050	.1510	.0000	.4460	.4460	.4460	.4460	.4460	-.0480	-.1420	-.1150	-.0720	.0690
142.000	.2750	-.0490	.1290	.4930	.0000	.5550	.5550	.5550	.5550	.5550	-.0480	-.1420	-.1150	-.0720	.0690
150.000	.8230														
157.000	.4900														
162.000	.3350														
165.000	.7480														
169.000	.4590														
172.000	.0000														
180.000	1.2990	.6400	.1120	-.0580	.0390	.4590	.7480	.8230	.8230	.8230	-.0480	-.1420	-.1150	-.0720	.0690
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					

X/LB	.0000	.0075	.0188	.0339	.0612	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI	1.2990	.4570	.3010	.2490	-.0430	-.2660	-.0390	-.0390	-.0390	-.0390	-.0240	-.0240	-.0240	-.0240	-.0240
40.000	.1990	-.1190	-.1410	-.2150	-.1220	-.1990	-.1310	-.1160	-.1160	-.1160	-.0240	-.0240	-.0240	-.0240	-.0240
70.000	.0000	-.1200	-.1070	-.1670	-.0360	-.0210	-.1350	-.1630	-.1630	-.1630	-.0240	-.0240	-.0240	-.0240	-.0240
90.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	-.0240	-.0240	-.0240	-.0240	-.0240
105.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	-.0240	-.0240	-.0240	-.0240	-.0240
110.000	.0000	-.1780	-.1580	.5970	.1580	-.0810	-.1310	-.1550	-.1550	-.1550	-.0240	-.0240	-.0240	-.0240	-.0240
120.000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	-.0240	-.0240	-.0240	-.0240	-.0240
135.000	.0000	-.1120	.0080	.1230	.0920	-.0840	.0000	.0000	.0000	.0000	-.0240	-.0240	-.0240	-.0240	-.0240
150.000	.0000	-.0880	.1460	.2140	.0500	.0410	-.1210	-.1210	-.1210	-.1210	-.0240	-.0240	-.0240	-.0240	-.0240
180.000	1.2990	.6400	.1120	-.0580	.0390	.4590	.7480	.8230	.8230	.8230	-.0480	-.1420	-.1150	-.0720	.0690

MACH (1) = 1.555 BETAT (3) = -4.230

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0612	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI	1.4320	1.2160	.5530	-.1290	-.1990	.0580	.0040	.0040	.0040	.0040	-.0570	-.1350	-.1420	-.0430	.0640
20.000	.6850	-.0420	-.1130	.0100	.0100	.0040	.0040	.0040	.0040	.0040	-.0570	-.1350	-.1420	-.0430	.0640
40.000	.8260	.0220	.1440	-.0510	-.0510	-.0470	-.0470	-.0470	-.0470	-.0470	-.0570	-.1350	-.1420	-.0430	.0640
55.000	.8290	.1830	.2480	.0880	.0880	-.0510	-.0510	-.0510	-.0510	-.0510	-.0570	-.1350	-.1420	-.0430	.0640
70.000	.7190	.2390	.1680	.1130	.1130	-.0470	-.0470	-.0470	-.0470	-.0470	-.0570	-.1350	-.1420	-.0430	.0640
90.000	.5260	.0910	.2890	.1390	.1390	.1200	.1200	.1200	.1200	.1200	-.0570	-.1350	-.1420	-.0430	.0640
120.000	.3380	.0280	.1410	.1500	.1500	.4220	.4220	.4220	.4220	.4220	-.0570	-.1350	-.1420	-.0430	.0640

DATE 20 SEP 73

TABLATED PRESSURE DATA - IA9B

(RDC822)

AMES 97-757 1A9 CEA + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.555 BETAT (3) = -4.230

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0682	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000															
X/LB	1.4320	.6380	.1020	-.0590	.0400	.5250									
PHI															
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000															

MACH (1) = 1.555 BETAT (4) = -0.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000															
X/LB	1.4320	.6380	.1020	-.0590	.0400	.5250									
PHI															
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000															

MACH (1) = 1.555 BETAT (4) = -0.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000															
X/LB	1.4320	.6380	.1020	-.0590	.0400	.5250									
PHI															
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000															

.9592

DATE 20 SEP 73

TABLULATED PRESSURE DATA - 1A9B
 AMES 97-707 1A9 CGA + S3 + T9 ORBITER FUSELAGE

(RD0822)

MACH (1) = 1.555 BETAT (4) = -1.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	PHI	180.000	0.000	0.075	0.188	0.339	0.562	0.855	1.206	1.581	1.732	1.958	2.259	2.711	3.200	3.953	5.120
PHI	0.000	0.660															
180.000	0.660																
0.000		0.660															
0.075			0.300														
0.188				0.130													
0.339					0.180												
0.562						0.220											
0.855							0.280										
1.206								0.340									
1.581									0.400								
1.732										0.460							
1.958											0.520						
2.259												0.580					
2.711													0.640				
3.200														0.700			
3.953															0.760		
5.120																0.820	

MACH (1) = 1.555 BETAT (5) = 3.940

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	PHI	180.000	0.000	0.075	0.188	0.339	0.562	0.855	1.206	1.581	1.732	1.958	2.259	2.711	3.200	3.953	5.120
PHI	0.000	0.660															
180.000	0.660																
0.000		0.660															
0.075			0.300														
0.188				0.130													
0.339					0.180												
0.562						0.220											
0.855							0.280										
1.206								0.340									
1.581									0.400								
1.732										0.460							
1.958											0.520						
2.259												0.580					
2.711													0.640				
3.200														0.700			
3.953															0.760		
5.120																0.820	

TABULATED PRESSURE DATA - 1A9B

DATE 20 SEP 73

AMES 97-707 1A9 O2A + S3 + T9 ORBITER FUSELAGE

(RBC0822)

MACH (1) = 1.555 BETAT (5) = 3.940

SECTION (1) ORBITER FUSELAGE

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI	-.1310	-.1370	-.1920	-.0590	-.0600	-.1010	-.1320
70.000	-.0780	-.1110	-.0900	-.0720	-.1250	-.1350	-.1550
90.000	.0290	.0430	-.0740	-.1550	-.1500	.0410	-.0880
110.000	-.0360	-.1090	.2150	.0360	-.1310	-.1210	-.1170
120.000	-.1230	.0020	.2420	.2900	-.0130	-.0300	.0510
130.000	-.0220	-.0470	.1070	.2860	.0920	.0210	-.1680
150.000	-.0880	-.0470	.1070				

MACH (1) = 1.555 BETAT (6) = 6.060

SECTION (1) ORBITER FUSELAGE

X/LB .0000 .0075 .0188 .0339 .0602 .1355 .1506 .1581 .1732 .1958 .2259 .2711 .3200 .3953 .5120

PHI	.5210	-.1690	-.2030	.0060	.0110	-.1280	-.1250	-.0810	.0760
20.000	.4780	-.1670	-.2140	.0070	.0300	-.1140	-.1020	.0240	.0170
40.000	.4590	-.1670	-.1990	.0490	.0550	-.1700	-.1020	.0240	.0170
55.000	.4090	-.1390	-.1780	.0130	.0280	-.0470	-.2640	-.2040	-.0990
70.000	.3010	-.1320	-.2080	.0890	.0730	-.0320	-.2910	-.531	-.2330
90.000	.1810	-.2120	-.1620	.0670	.2070	-.0510	-.3200	-.2500	-.0920
120.000	.0960	-.1840	-.1080	.2130	.1010	-.1280	-.3200	-.2110	-.1320
142.000	.0960	-.1510	-.0360	.3810	.3720	-.3460	-.3200	.0200	-.2110
150.000					.2810	-.6240	-.3400	-.2030	-.2070
157.000					.3340				
162.000					.5100				
165.000									
169.000									
172.000									
180.000									

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI	.0060	.1210	-.1300	-.0480	-.1610	-.1100	-.0510
40.000	-.0270	-.1130	-.1560	-.1020	-.1080	-.1350	-.1710
70.000	.0280	-.0400	.0110	-.0700	-.1110	-.1780	-.1790
90.000	.0440	.0260	.2390	.0030	-.1610	-.1660	-.1570
110.000	.0210	.0400	.2810	.2790	-.0480	-.0460	-.0790
120.000							
130.000							
150.000							

DATE 20 SEP 73

TABLATED PRESSURE DATA - IA9B

AMES 97-707 IAS O2A + S3 + T9 ORBITER FUSELAGE

(RBC822)

MACH (2) = 2.000 BETAT (3) = -4.220

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/LB	PHI	180.000	1.2990	.5675	.0188	.0339	.5872	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
.0000	.0790	.5675	.7810	.2430	.5490	.0700	.3060			.6870							
.0000	.0790																
40.000	.0690																
70.000																	
90.000																	
105.000																	
110.000																	
120.000																	
135.000																	
150.000																	
165.000																	
180.000																	

MACH (2) = 2.000 BETAT (4) = -.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/LB	PHI	.0000	1.3010	1.1260	.7840	.1320	.0270	.2590	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
.0000	.0790	.0000	.0075	.0188	.0339	.5872	.1355	.1506	.1581	.1790	.1958	.2259	.2711	.3200	.3953	.5120
20.000																
40.000																
55.000																
70.000																
90.000																
120.000																
142.000																
150.000																
157.000																
162.000																
165.000																
169.000																
172.000																
180.000																

X/LB PHI .0000 .1690 .1170 .0800 .0230 .0210 .1360 .0550 .0310 .0690

DATE 20 SEP 73 TABULATED PRESSURE DATA - 1A9B

(R80822)

AMES 97-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.000 BETAT (4) = -.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5673	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000	-.1150	-.1310	-.1370	-.1040	-.0800	-.1180	-.1180	-.1300		
90.000	-.0810	-.1060	-.0940	-.0270	-.0530	-.0920	-.0920	-.1250		
105.000		.0480	.0280	.0490	-.1040	-.1300			.0200	
110.000									-.0500	
120.000	-.0680	-.0610	.2150	.1150	-.0660	-.0980	-.0980	-.0950		
135.000			.1580	.1740	-.1130	-.0670	-.0290			
150.000	-.0620	-.0110	.0850	.0970	.0140	.0020	-.0110			
165.000	-.0580		.1070	.1440	.0780	.0390	-.0770			
180.000	-.0580	-.0360	.0360							

MACH (2) = 2.000 BETAT (5) = 4.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0168	.0339	.0672	.1355	.1506	.1561	.1732	.1958	.2239	.2711	.3200	.3953	.5120
PHI															
20.000	1.2880	1.0940	.7260	.1190	-.0530	.2230		.1390	.1390	.0530	-.0250	-.0250	-.0610	-.1080	-.0470
40.000		.6860	.1530	-.0580	.2760		.1720	.1720	.1070	-.0470	-.0570	-.0990	-.1470	.0570	
60.000			.6020	.1540	.0010	.2110		.1080	.1080	-.0470	-.0570	-.0990	-.1470	.0570	
80.000			.5070	.1700	.0340	.1060		.0740	.0740	-.0470	-.0570	-.0990	-.1470	.0570	
100.000			.4060	.0270	-.0060	.0870		.1010	.1010	-.0470	-.0570	-.0990	-.1470	.0570	
120.000	.7930		.3130	-.0320	.0040	.0730		.1730	.1730	-.0470	-.0570	-.0990	-.1470	.0570	
140.000			.2580	-.0270	-.0280	.0870		.1880	.1880	-.0470	-.0570	-.0990	-.1470	.0570	
160.000			.2540	-.0150	.0240	.1620		.4070	.4070	-.0470	-.0570	-.0990	-.1470	.0570	
180.000								.5030	.5030	-.0470	-.0570	-.0990	-.1470	.0570	

MACH (2) = 2.000 BETAT (5) = 4.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0168	.0339	.0672	.1355	.1506	.1561	.1732	.1958	.2239	.2711	.3200	.3953	.5120
PHI															
40.000	.1040														
60.000	.0760	.1420													
80.000		-.1110	-.1330	-.1180	-.0970	-.1020	-.1190	-.1290							
100.000		-.0760	-.0990	-.0370	-.0710	-.0750	-.1140	-.1260							
120.000			-.0140	-.0300	-.0760	-.1140	-.1320								
140.000	-.0680	-.0640	.0820	.0130	-.0960	-.0910	-.1030	-.1030							
160.000			.3660	.2260	-.0970	-.0990	-.0690	-.0690							
180.000	-.0750	-.0420	.1430	.4090	-.0970	-.0370	-.0470	-.0470							

AMES 97-707 1A9 OCA + S3 + T9 ORBITER FUSELAGE

(R80822)

MACH (2) = 2.500 BETAT (5) = 4.500

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI
185.0000 -.09990 .1110 .3410 .5030 .6230 -.18000
180.0000 -.09970 -.10990 -.0010

MACH (2) = 2.500 BETAT (6) = 6.000

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .0000 .5075 .5188 .5339 .5602 .1355 .1516 .1581 .1732 .1958 .2259 .2711 .3200 .3953 .5120

PHI
.0000 1.2820 1.0600 .7040 .1050 -.0630 .1580 .0800 .0340 -.0200 -.0960 -.0540 -.0440
20.0000 .6320 .0990 -.0690 .2320 .1090 .0070
40.0000 .5270 .0680 -.0720 .1990 .0830 -.0730 .1520 -.1240 -.1360 .0100
55.0000 .4250 .1070 -.0450 .0980 .0450 -.0130
70.0000 .3260 -.0180 -.0710 .0500 .0540 .0540 .1140 -.1720 .1770 .1210
90.0000 .2450 -.0800 -.0540 .0140 .1760 .0630 -.1280 -.1810 -.1120
120.0000 .2000 -.0640 -.0560 .0200 .1140 .0130 -.1540 -.1710 -.1580 -.1350
142.0000 .2130 -.0320 -.0030 .1520 -.2020 .0000 .0000 -.0680 -.1280
150.0000 .5120
157.0000 .3770
162.0000 .4410
165.0000 .6250
169.0000 .3740
172.0000 .5970
180.0000 1.2820 .7530 .2270 .0280 .0580 .3740 .5970 .2260 .1950 .2390 .2280 .1340

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI
.0000 -.0370
40.0000 .0160 .1480 -.0130 -.0520 -.0730 -.1150 -.0780
70.0000 -.1130 .1330 .1250 .1010 .1040 .1230 .1310
90.0000 .0780 .1010 .0480 .0810 .0850 .1190 .1310
105.0000 .0150 .0480 .0850 .1200 .1410
110.0000 .0420
120.0000 .0710 .0690 .1350 .0030 .1260 .1250 .1070 .0690
135.0000 .4180 .3670 .1260 .0950 .0760
150.0000 .0940 .0730 .0820 .2150 .1010 .0720 .1650
165.0000 .1210 .0790 .3550 .1000 .0460 .0890
180.0000 .1650 .1550 .0940

AMES 97-707 1A9 O2A + S3 + T9 ORBITER FUSELAGE

(RB0023) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 26.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = -8.0000 ORGINC = .0000
 RUDDER = 15.0000 ELEVON = .0000
 %DPLR = .0000

MACH (1) = 1.555 BETAT (1) = -8.400

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/UB	PHI	0.000	0.2375	0.5168	0.8339	0.6672	0.1395	0.1506	0.1581	0.1732	0.1958	0.2259	0.2711	0.3270	0.3953	0.5120
PHI	0.000	1.4480	0.9710	0.4330	-0.1020	0.1050	-0.0140	-0.0590	-0.0990	-0.1310	-0.1640	-0.1970	-0.2300	-0.2630	-0.2960	-0.3290
20.000	0.000	0.5580	0.0330	0.5580	0.0330	0.1290	0.0120	-0.0260	-0.0530	-0.0800	-0.1070	-0.1340	-0.1610	-0.1880	-0.2150	-0.2420
40.000	0.000	0.7440	0.1620	0.7440	0.1620	0.3270	0.0370	-0.0700	-0.1400	-0.2100	-0.2800	-0.3500	-0.4200	-0.4900	-0.5600	-0.6300
55.000	0.000	0.8210	0.2780	0.8210	0.2780	0.4590	0.2820	-0.2700	-0.3850	-0.4980	-0.6110	-0.7240	-0.8370	-0.9500	-1.0630	-1.1760
70.000	0.000	0.8970	0.3450	0.8970	0.3450	0.5920	0.3550	-0.4780	-0.6450	-0.8120	-0.9790	-1.1460	-1.3130	-1.4800	-1.6470	-1.8140
90.000	0.000	1.3030	0.7890	1.3030	0.7890	0.5240	0.4430	0.6450	0.7720	0.9000	1.0280	1.1560	1.2840	1.4120	1.5400	1.6680
120.000	0.000	0.7410	0.3200	0.7410	0.3200	0.5440	0.6640	0.8230	0.9820	1.1410	1.3000	1.4590	1.6180	1.7770	1.9360	2.0950
142.000	0.000	0.6690	0.3010	0.6690	0.3010	0.5110	0.9380	1.0640	1.1900	1.3160	1.4420	1.5680	1.6940	1.8200	1.9460	2.0720
157.000	0.000	0.7490	0.6040	0.7490	0.6040	0.7490	0.6040	0.8250	0.9010	0.9770	1.0530	1.1290	1.2050	1.2810	1.3570	1.4330
162.000	0.000	0.8250	0.6040	0.8250	0.6040	0.8250	0.6040	0.9010	0.9770	1.0530	1.1290	1.2050	1.2810	1.3570	1.4330	1.5090
165.000	0.000	0.9010	0.6040	0.9010	0.6040	0.9010	0.6040	0.9770	1.0530	1.1290	1.2050	1.2810	1.3570	1.4330	1.5090	1.5850
169.000	0.000	0.9770	0.6040	0.9770	0.6040	0.9770	0.6040	1.0530	1.1290	1.2050	1.2810	1.3570	1.4330	1.5090	1.5850	1.6610
172.000	0.000	1.0530	0.6040	1.0530	0.6040	1.0530	0.6040	1.1290	1.2050	1.2810	1.3570	1.4330	1.5090	1.5850	1.6610	1.7370
180.000	0.000	1.1290	0.6040	1.1290	0.6040	1.1290	0.6040	1.2050	1.2810	1.3570	1.4330	1.5090	1.5850	1.6610	1.7370	1.8130
X/UB	0.000	0.5873	0.6626	0.7380	0.7869	0.8271	0.8848	0.9262	0.9639	1.0015	1.0392	1.0769	1.1146	1.1523	1.1900	1.2277
PHI	0.000	-0.1520	0.2810	0.5530	0.8250	0.9540	-0.0830	-0.3020	-0.5210	-0.7400	-0.9590	-1.1780	-1.3970	-1.6160	-1.8350	-2.0540
40.000	0.000	-0.0420	0.5110	0.0610	0.5510	0.1830	0.1420	0.0870	0.0320	-0.0230	-0.0780	-0.1330	-0.1880	-0.2430	-0.2980	-0.3530
70.000	0.000	0.0610	0.0420	0.0780	0.2140	0.1370	0.1490	0.0710	0.0580	0.0450	0.0320	0.0190	0.0060	-0.0070	-0.0200	-0.0330
90.000	0.000	0.0780	0.0610	0.0950	0.2890	0.2080	0.1490	0.0510	0.0410	0.0310	0.0210	0.0110	0.0010	-0.0090	-0.0190	-0.0290
110.000	0.000	0.0950	0.0780	0.1150	0.3800	0.2550	0.0370	0.0460	0.0360	0.0260	0.0160	0.0060	-0.0040	-0.0140	-0.0240	-0.0340
120.000	0.000	0.1150	0.0950	0.1320	0.4710	0.3460	-0.0220	0.1520	0.2650	0.3780	0.4910	0.6040	0.7170	0.8300	0.9430	1.0560
130.000	0.000	0.1320	0.1150	0.1520	0.5620	0.4650	-0.0220	0.1520	0.2650	0.3780	0.4910	0.6040	0.7170	0.8300	0.9430	1.0560
150.000	0.000	0.1520	0.1320	0.1690	0.6530	0.5280	-0.0220	0.1520	0.2650	0.3780	0.4910	0.6040	0.7170	0.8300	0.9430	1.0560
169.000	0.000	0.1690	0.1520	0.1890	0.7440	0.5680	-0.0220	0.1520	0.2650	0.3780	0.4910	0.6040	0.7170	0.8300	0.9430	1.0560
180.000	0.000	0.1890	0.1690	0.2060	0.8350	0.6130	-0.0220	0.1520	0.2650	0.3780	0.4910	0.6040	0.7170	0.8300	0.9430	1.0560

DATE 20 SEP 73

TABULATED PRESSURE DATA - 1A9B

(R0023)

AMES 97-707 1A9 O2A + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.555 BETAT (2) = -6.360

DEPENDENT VARIABLE CP

SECTION (1) ORBITER FUSELAGE

X/LB	PHI	0.0000	0.0075	0.0168	0.0339	0.0602	0.1355	0.1506	0.1581	0.1732	0.1958	0.2259	0.2711	0.3200	0.3953	0.5120
PHI																
0.0000	1.4680	0.9660	0.4780	-0.0770	0.1090	0.0080										
20.0000	0.5480	0.0390	0.1450	0.0150												
40.0000	0.6960	0.1140	0.3000	0.0380												
55.0000	0.7550	0.2070	0.4100	0.2560												
70.0000	0.7570	0.2390	0.4270	0.3280												
90.0000	1.2460	0.7220	0.2490	0.4300	0.4300											
120.0000	0.6900	0.2490	0.4720	0.6530												
142.0000	0.5540	0.2760	0.4720	0.9500												
150.0000																
157.0000																
162.0000																
165.0000																
169.0000																
172.0000																
180.0000	1.4680	1.0600	0.4940	0.2750	0.4010	1.0010										
X/LB	0.5873	0.6626	0.7380	0.7869	0.8283	0.8648	0.9262	0.9639	1.0015	1.0392						

MACH (1) = 1.555 BETAT (3) = -4.280

DEPENDENT VARIABLE CP

SECTION (1) ORBITER FUSELAGE

X/LB	PHI	0.0000	0.0075	0.0168	0.0339	0.0602	0.1355	0.1506	0.1581	0.1732	0.1958	0.2259	0.2711	0.3200	0.3953	0.5120
PHI																
0.0000	-1.6800	0.1880	0.0790	-0.0250	-0.1100	-0.3160										
20.0000	-1.5440	0.0450	0.0370	0.1500	0.1070	0.0580										
40.0000	-0.0010	0.0650	0.1850	0.1150	0.0450	0.0240										
55.0000	0.0280	0.0600	0.2630	0.1680	0.0180	0.0170										
70.0000																
90.0000	0.0580	0.0360	0.5520	0.2220	-0.0140	0.0130	0.0650									
120.0000																
135.0000	0.0490	0.0280	0.6390	0.4520	-0.0210	0.1240	0.2210									
150.0000	0.0570	0.0280	0.2880	0.3340	0.0860	0.2930	0.2640									
165.0000	0.0570	0.0280	0.3490	0.5310	0.3370	0.3620	0.0930									
180.0000	-0.0710	0.0020	0.1720													
X/LB	0.5873	0.6626	0.7380	0.7869	0.8283	0.8648	0.9262	0.9639	1.0015	1.0392						

DATE 25 SEP 73 TABULATED PRESSURE DATA - 1A9B

(R80823)

AVES 97-707 1A9 OCA + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.555 BETAT (5) = 3.940

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
75.000	-.0290	-.0170	.0180	.0830	.0170	-.0470	-.0670			
90.000	-.0070	-.0180	.0060	.0270	-.0180	-.0740	-.0550			
105.000		.0750	-.0090	-.0190	-.0960	-.0630		.0790		
110.000									-.0610	
120.000	.0160	-.0270	.1860	-.0110	-.2010	-.1210	-.0970			
135.000			.7880	.3500	-.1350	-.1290	-.1390			
150.000	.0330	.0340	.3220	.5560	.1490	.0530	-.0040			
165.000	-.0110		.3720	.5880	.2030	.1020	-.1150			
180.000	.0080	.0240	.2920							

MACH (1) = 1.555 BETAT (6) = 8.060

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0070	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
90.000	1.4420	.9640	.4200	-.0730	.1400	-.0200			-.0810		-.0870	.0420	.1270	.0490	-.1060
20.000		.3480	-.1150	.0670	-.0630				-.0740		-.0970		.0250	-.1070	-.1260
40.000		.2860	-.1150	-.0850	.0050				.0490		.0340				
55.000		.2340	-.1470	-.1430	.1270				.1820		-.0010				
70.000		.1890	-.2010	-.1840	.1880				.2270		-.0680				
90.000		.7500	.1880	-.2020	-.1570	.2720			.0220		-.1260				
120.000			.2780	-.0740	.0080	.1720			-.3180		-.3080				
142.000			.4030	.1180	.2230	.5770			.3890						
150.000								.6200							
157.000									.4450						
162.000															
165.000															
169.000															
172.000															
180.000	1.4420	1.0750	.4820	.2920	.4110	.9550			.8070		-.2650	-.1340	-.0970	-.1490	-.1210

MACH (1) = 1.555 BETAT (6) = 8.060

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
40.000	-.1680	-.0290	-.1370	-.2160	-.2460	-.2300				-.1820
70.000	.0060	.0190	.0560	.0840	.0170	-.0470				-.1500
90.000	.0010	-.0070	.1330	.0390	-.0170	-.0680				
105.000		.0810	-.0360	-.0250	-.0770	-.0590				
110.000									.0290	
120.000	.0470	.0070	.1880	-.0820	-.2710	-.1440	-.1320			-.0920
135.000			.7600	.3910	-.1440	-.1790	-.2050			
150.000	-.0870	-.0820	.2210	.3260	.1330	.0200	-.0440			

(REC0823)

AMES 97-707 IA9 OGA + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.000 BETAT (2) = -6.330

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5600	.6075	.6188	.6339	.6602	.6355	.6506	.6581	.6732	.6956	.7211	.7400	.7620	.7853
PHI	1.5790	.9620	.4840	.0610	.0400	.1740	.0860	.0820	.0140	.0410	.0500	.0410	.0500	.0410
20.000	.5275	.1330	.0890	.2070	.1100	.1190	.0980	.0770	.0200	-.0120	.0950	.0980	.0980	.0980
40.000	.6390	.1310	.2920	.2530	.3380	.3380	.2720	.3190	.0580	-.0280	.0490	.1330	.1330	.1330
55.000	.6890	.1630	.3510	.4180	.4410	.4410	.3120	.3120	.0430	.0740	.0250	.1190	.1190	.1190
70.000	.7170	.1760	.2620	.4600	.5760	.5760	.2900	.2900	.0370	.0400	.0440	.0500	.0500	.0500
90.000	1.2870	.7320	.2330	.2470	.4940	.7190	.1240	.1240	.0290	.0200	.0430	.0310	.0310	.0310
120.000	.7690	.2960	.3430	.5070	.7730	1.0220	.9480	-.0780	.0650	.0760	.0540	.0300	.0300	.0300
142.000	.7690	.3350	.4190	.7730	1.2730	.8450	-.1200	-.1200	.0680	.0170	-.0300	-.0300	-.0300	-.0300
150.000	.6200	.3350	.3950	.7980	1.3300	1.0870	-.1200	-.1200	.0680	.0170	-.0300	-.0300	-.0300	-.0300
157.000	.6200	.3350	.3950	.7980	1.3300	1.0870	-.1200	-.1200	.0680	.0170	-.0300	-.0300	-.0300	-.0300
162.000	.6200	.3350	.3950	.7980	1.3300	1.0870	-.1200	-.1200	.0680	.0170	-.0300	-.0300	-.0300	-.0300
165.000	.6200	.3350	.3950	.7980	1.3300	1.0870	-.1200	-.1200	.0680	.0170	-.0300	-.0300	-.0300	-.0300
169.000	.6200	.3350	.3950	.7980	1.3300	1.0870	-.1200	-.1200	.0680	.0170	-.0300	-.0300	-.0300	-.0300
172.000	.6200	.3350	.3950	.7980	1.3300	1.0870	-.1200	-.1200	.0680	.0170	-.0300	-.0300	-.0300	-.0300
180.000	1.5790	1.2420	.6200	.3350	.3950	.7980	1.0870	-.1200	.0680	.0170	-.0300	-.0300	-.0300	-.0300

X/LS .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0115 1.0392

PHI	.0090	.0800	.0440	.1150	.0480	-.0010	-.1440	-.1800	-.1470	-.1910
40.000	.0560	.0450	.1490	.1190	.0920	.0740	.0740	.0740	.0740	.0740
70.000	.0790	.0520	.1760	.1460	.0920	.0600	.0600	.0600	.0600	.0600
105.000	.0880	.0740	.2760	.2320	.1460	.0350	.0350	.0350	.0350	.0350
120.000	.0710	.0770	.3150	.2640	.1970	.0710	.0710	.0710	.0710	.0710
135.000	.0780	.0780	.5940	.4980	.3000	.3000	.3000	.3000	.3000	.3000
150.000	.0780	.0780	.2910	.2480	.1620	.1620	.1620	.1620	.1620	.1620
165.000	.0780	.0780	.2910	.2480	.1620	.1620	.1620	.1620	.1620	.1620
180.000	-.0130	-.0130	.1540	.1540	.1540	.1540	.1540	.1540	.1540	.1540

MACH (2) = 2.000 BETAT (3) = -4.280

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.6355	.6506	.6581	.6732	.6956	.7211	.7400	.7620	.7853
PHI	1.6010	.9790	.5210	.0870	.0420	.1910	.1010	.1200	.0750	.0850	.0810	.0410	.0410	.0410
20.000	.5270	.1250	.0650	.2180	.1120	.1190	.0980	.0770	.0200	-.0120	.0950	.0980	.0980	.0980
40.000	.6390	.1250	.1960	.2630	.3100	.3100	.2460	.2460	.0340	-.0170	.1040	.1040	.1040	.1040
55.000	.6890	.1490	.2440	.3920	.4150	.4150	.2940	.2940	.0350	-.0480	.0200	.1190	.1190	.1190
70.000	.6570	.1480	.1960	.4280	.5400	.5400	.2850	.2850	.0250	-.0190	.0170	.0990	.0990	.0990
90.000	1.2320	.1740	.1880	.4430	.6390	.6390	.2690	.2690	.0150	.0200	.0140	.0380	.0380	.0380
120.000	.7130	.2720	.3060	.3550	.6390	.6390	.2690	.2690	.0150	.0200	.0140	.0380	.0380	.0380

DATE 20 SEP 73

TABLATED PRESSURE DATA - 1A98

AMES 97-707 1A9 OZA + S3 + T9 ORBITER FUSELAGE

(R80823)

MACH (2) = 2.500 BETAT (3) = -4.280

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI										.0780	.0880	.0100	.0000	.0440	.0250
142.000									.9670						
150.000															
157.000									.8970						
162.000															
165.000									.8480						
169.000															
172.000															
180.000	1.6010	1.2570	.6230	.3580	.2090	.0990	.7990	1.2650	1.0910						
X/LB	.5873	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392					

-.1260

-.1210

1170

1050

MACH (2) = 2.000 BETAT (4) = -.170

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
20.000									.1080						
40.000									.1840						
59.000									.1240						
70.000									.2480						
90.000									.3570						
120.000									.4660						
142.000									.3010						
150.000															
157.000									.8190						
162.000															
165.000									.7880						
169.000															
172.000															

1.2950

DATE 20 SEP 73

TABULATED PRESSURE DATA - IA9B

(R8C823)

AMES 97-707 IA9 OCA + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.000 BETAT (5) = 3.930

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.3873	.6826	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000	.0350	.0000	.0060	.0500	.0410	.0040	.0180	-.0180		
90.000	.0500	.0080	.0790	.0420	.0380	-.0180	-.0400	-.0400		
105.000			.1020	.0360	.0360	-.0360	-.0440		.0810	
115.000				.0350	.0350	-.0430	-.0110	.0650		
120.000	.0430		.2430	.0350	-.0430	-.0350	-.0400			
135.000			.7450	.4390	-.0440	-.0350	-.0400			
150.000	.0270	.0390	.2940	.6080	.1820	.1260	.0800			
165.000	-.0080	-.0080	.2730	.6420	.2670	.1780	.0170			
180.000	.0320	.0400	.1650							

MACH (2) = 2.000 BETAT (6) = 5.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0200	.0075	.0188	.0339	.0602	.1355	.1516	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
70.000	1.5800	.9620	.4980	.0700	.0190	.1820		.1090	.0690	.0250	.0710	.0580	.0580	.0570	
90.000			.4310	.0660	.0280	.1590		.0930	.0810	.0550	.0630	.0010	-.0060		
105.000			.4010	.0650	.0250	.1230		.0630	.1190	.0550	.0630	.0010	-.0060		
120.000			.3690	.0350	.0140	.1640		.1110	.2070	-.0320	-.0330	-.0370	.0610		
135.000			.3430	-.0040	-.0290	.1400		.1940	.1990	-.0480	-.0870	-.0670	.0370		
150.000	.9200	.3660	-.0280	-.0300	.0560		.2180	.0660	-.0850	-.1820	-.0740	-.0170	-.0270		
165.000			.4650	.0990	.1010	.0730		.0930	-.1160						
180.000			.5690	.2340	.2780	.5580		.6330	-.1270	-.1320	.0000	-.0320	.0360		

MACH (2) = 2.000 BETAT (6) = 5.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.3873	.6826	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
70.000	.0060	-.0250	-.0500	-.1520	-.2015	-.1760	-.1970	-.1480	-.1500	
90.000	.0260	.0080	.0170	.0420	.0310	-.0050	-.0330	-.0510		
105.000	.0380	.0000	.0690	.0370	.0180	-.0350	-.0510			
120.000			.0860	-.0030	.0030	-.0490	-.0540		.0710	
135.000	.0300	.0240	.2190	-.0030	-.1550	-.0840	-.0500	-.0100		
150.000			.7800	.4180	-.0770	-.0680	-.0670			
165.000	-.0350	-.0420	.1170	.4610	.1750	.0980	.0520			

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA98

(R80823)

AMES 97-707 IA9 OCA + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.000 BETAT (6) = 5.980

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000		-.0500		.2880	.4640	.1990	.1310	-.0110		
180.000		-.0110	-.0160	.1340						

MACH (2) = 2.000 BETAT (7) = 8.040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0672	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
.000	1.5710	.9450	.4700	.0820	.0430	.1620			.0730		.0540	-.0010	-.0040	-.0100	.0400
20.000		.4030	.0550	.0050	.1190				.0500		.0030				
40.000		.3510	.0430	-.0270	.0730				.0240		.0740	.0110	.0030	-.0200	-.0390
55.000		.3110	.0260	-.0380	.1310				.0970		.1880				
70.000		.2830	-.0530	-.0650	.1310				.1790		.1180	-.0440	-.1120	-.0530	.0580
90.000		.2990	-.0660	-.0690	.0100				.1780		.0280	-.1160	-.1020	-.0630	.0190
120.000		.4070	.0610	.0660	.0360				.0490		-.1350	-.2220	-.1570	-.0360	-.0460
142.000			.5270	.2100	.2470	.4990			.5610		-.1490	-.1560	.0000	-.0580	-.0790
150.000							.8550								
157.000									.6910						
162.000															
165.000									.8010						
172.000															
180.000	1.5710	1.2320	.5980	.3480	.3950	.8550	1.1560		1.0420						

MACH (2) = 2.000 BETAT (7) = 8.040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0230	.0540	.0720	.0730	.0290	.0130	-.0620	-.0250	-.1970	-.1460	-.1830	-.1450	-.1480
PHI														
.000														
40.000		-.0220		-.1730	-.1820	-.2310	-.2130							
70.000		.0170	-.0130	.0340	.0220	-.0170	-.0450							
90.000		.0220	-.0120	.0220	.0040	-.0450	-.0570							
105.000				.0730	-.0290	.0130	-.0620							
110.000		.0190	.0170	.2010	-.0260	-.1930	-.1250							
120.000				.5040	.4010	-.0810	-.1070							
135.000				.1190	.2020	.1450	.0680							
150.000		-.1360	-.0670	.1190	.2020	.1450	.0680							
165.000		-.0910	.1350	.3190	.0990	.0400	-.0770							
180.000	1.5710	1.2320	.5980	.3480	.3950	.8550	1.1560		1.0420					

AMES 97-707 1A9 C&A + S3 + 79 ORBITER FUSELAGE

MACH (1) = 1.555 BETAT (3) = -4.240

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/LB	.0000	.1475	.0339	.0682	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3250	.3953	.5120
PHI								.7360						
142.000		.5270	.1590	.3220	.8530		.9650							
150.000														
157.000														
162.000														
165.000														
169.000														
172.000								.7890						
180.000	1.4310	.9390	.4010	.1870	.2860	.9610								
X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392				
PHI														
.000														
.1290														
.2580														
.3870														
.5160														
.6450														
.7740														
.9030														
1.0320														
1.1610														
1.2900														
1.4190														
1.5480														
1.6770														
1.8060														

MACH (1) = 1.555 BETAT (4) = -1.150

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/LB	.0000	.2375	.0188	.0339	.0682	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3250	.3953	.5120
PHI									.1310						
.000															
.1290															
.2580															
.3870															
.5160															
.6450															
.7740															
.9030															
1.0320															
1.1610															
1.2900															
1.4190															
1.5480															
1.6770															
1.8060															

1.1270

(RBO824)

AMES 97-707 IA9 OEA + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.555 BETAT (4) = -.150

SECTION (1) ORBITER FUSELAGE	DEPENDENT VARIABLE CP
X/LB	.0000 .0075 .0188 .0339 .0602 .1355 .1506 .1581 .1732 .1958 .2259 .2711 .3250 .3953 .5120
PHI	
180.0000	1.4560 1.0050 .4070 .1880 .2880 .9980
X/LB	.5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392
PHI	
.0000	-.0620
.0710	-.0200
.1660	-.0610
.3170	-.0430
.5050	-.0070
.7200	.0050
.9500	.0050
120.0000	.0050
150.0000	.0050
180.0000	.0050

MACH (1) = 1.555 BETAT (5) = 3.940

SECTION (1) ORBITER FUSELAGE	DEPENDENT VARIABLE CP
X/LB	.0000 .0075 .0188 .0339 .0602 .1355 .1506 .1581 .1732 .1958 .2259 .2711 .3250 .3953 .5120
PHI	
.0000	1.4390 1.0030 .4500 .1030 .0480 .0310
.0710	-.0250
.1660	-.0070
.3170	-.0080
.5050	-.0020
.7200	-.0070
.9500	-.0070
120.0000	.0020
142.0000	.0020
150.0000	.0020
162.0000	.0020
165.0000	.0020
169.0000	.0020
172.0000	.0020
180.0000	.0020

PHI
 .0000
 .0710
 .1660
 .3170
 .5050
 .7200
 .9500
 120.0000
 142.0000
 150.0000
 162.0000
 165.0000
 169.0000
 172.0000
 180.0000

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE

BETAT (1) = -8.310

MACH (2) = 2.000

DEPENDENT VARIABLE CP

SECTION (1) ORBITER FUSELAGE

X/LB	PHI	0.000	0.0075	0.0188	0.0339	0.0602	0.1355	0.1506	0.1581	0.1732	0.1958	0.2239	0.2711	0.3200	0.3953	0.5120
PHI	1.4760	0.8890	0.4060	0.0715	0.0680	0.1680	0.670	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980
20.000	0.4750	0.1330	0.1530	0.1940	0.1920	0.2350	0.3130	0.3130	0.3130	0.3130	0.3130	0.3130	0.3130	0.3130	0.3130	0.3130
40.000	0.6330	0.1340	0.4020	0.2350	0.4180	0.3750	0.3750	0.3750	0.3750	0.3750	0.3750	0.3750	0.3750	0.3750	0.3750	0.3750
55.000	0.7070	0.1700	0.4250	0.4510	0.2820	0.4510	0.5210	0.5210	0.5210	0.5210	0.5210	0.5210	0.5210	0.5210	0.5210	0.5210
70.000	0.7430	0.1960	0.2820	0.4690	0.7310	0.2160	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720	0.9720
90.000	0.7430	0.2480	0.2680	0.4690	0.6170	1.1790	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970	0.8970
120.000	0.7270	0.2990	0.3030	0.4750	0.7400	0.9590	0.7400	0.7400	0.7400	0.7400	0.7400	0.7400	0.7400	0.7400	0.7400	0.7400
142.000	0.6680	0.2620	0.3360	0.6170	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590
150.000	0.6680	0.2620	0.3360	0.6170	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590
162.000	0.6680	0.2620	0.3360	0.6170	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590
165.000	0.6680	0.2620	0.3360	0.6170	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590
169.000	0.6680	0.2620	0.3360	0.6170	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590
172.000	0.6680	0.2620	0.3360	0.6170	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590
180.000	0.6680	0.2620	0.3360	0.6170	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590	0.9590

X/LB

PHI

PHI

X/LB

BETAT (2) = -6.270

MACH (2) = 2.000

DEPENDENT VARIABLE CP

SECTION (1) ORBITER FUSELAGE

X/LB	PHI	0.000	0.0075	0.0188	0.0339	0.0602	0.1355	0.1506	0.1581	0.1732	0.1958	0.2239	0.2711	0.3200	0.3953	0.5120
PHI	1.4960	0.9210	0.4860	0.0960	0.0220	0.1790	0.0780	0.1080	0.1080	0.1080	0.1080	0.1080	0.1080	0.1080	0.1080	0.1080
20.000	0.9110	0.1420	0.1950	0.2010	0.2010	0.2360	0.2955	0.2955	0.2955	0.2955	0.2955	0.2955	0.2955	0.2955	0.2955	0.2955
40.000	0.6110	0.1640	0.3120	0.3920	0.3920	0.4180	0.3940	0.3940	0.3940	0.3940	0.3940	0.3940	0.3940	0.3940	0.3940	0.3940
55.000	0.6650	0.1730	0.3490	0.4180	0.4180	0.4180	0.4180	0.4180	0.4180	0.4180	0.4180	0.4180	0.4180	0.4180	0.4180	0.4180
70.000	0.6870	0.1750	0.2300	0.4180	0.4420	0.4420	0.4420	0.4420	0.4420	0.4420	0.4420	0.4420	0.4420	0.4420	0.4420	0.4420
90.000	0.6840	0.2000	0.2000	0.2620	0.4590	0.6660	0.6660	0.6660	0.6660	0.6660	0.6660	0.6660	0.6660	0.6660	0.6660	0.6660
120.000	0.6850	0.2600	0.2600	0.2620	0.4590	0.6660	0.6660	0.6660	0.6660	0.6660	0.6660	0.6660	0.6660	0.6660	0.6660	0.6660

X/LB

PHI

PHI

X/LB

DATE 20 SEP 73 TABULATED PRESSURE DATA - 1A9B

(RBC824)

AMES 97-707 IA9 OCA + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.0500 BETAT (2) = -6.270

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP	
X/LB	.00000	.0188	.0339
PHI	.6570	.2520	.3090
142.000			
150.000			
157.000			
162.000			
165.000			
169.000			
172.000			
180.000			
X/LB	1.4960	1.1160	.5110
PHI	.6626	.7380	.7869
110.000			
120.000			
135.000			
150.000			
165.000			
180.000			

	.1390	.1958	.2259	.2711	.3200	.3953	.5120
	.0660	-.0140	.0000	-.0120	-.0210	-.0210	
	-.0000	.0410	.0250	-.0030	-.0180	-.0180	
	-.0530	-.0070	-.0370	-.0130	-.0180	-.0180	
	.1390	.1732	.1958	.2259	.2711	.3200	.3953
	.0320						
	.8650						
	.7540						
	.9800						
	1.0015	1.0392					
	-.1390						
	-.1820						
	-.1660						
	.0230	-.0170					
	.0650	.0310	.0220				
	.0690	.0490	.0190				
	.0960	.0270	-.0040				
	.0740	.0340	.0260				
	.4070	-.0040	.0810				
	.1780	-.0390	.2050				
	.2080	.3810	.1070				
	.0890						
	.0780	.0340	.0260				
	.4590	-.0040	.0810				
	.1780	-.0390	.2050				
	.2080	.3810	.1070				
	.0890						
	.0780	.0340	.0260				
	.4070	-.0040	.0810				
	.1780	-.0390	.2050				
	.2080	.3810	.1070				
	.0890						
	.0780	.0340	.0260				

MACH (2) = 2.0500 BETAT (3) = -4.230

SECTION (1) ORBITER FUSELAGE		DEPENDENT VARIABLE CP	
X/LB	.00000	.0075	.0188
PHI	.5160	.0780	.0130
20.000			
40.000			
55.000			
70.000			
90.000			
120.000			
150.000			
162.000			
165.000			
169.000			
172.000			
180.000			

1.0530

MACH (2) = 2.000 BETAT (3) = -4.230

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.5000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI	180.000	1.5130	1.1290	.5120	.2680	.3000	.6310	.9900	.1732	.1958	.2259	.2711	.3200	.3953	.5120
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392	.1560	-.1050	-.0340	-.0580	-.1680
PHI	.0000	.0100	.0150	.0200	.0250	.0300	.0400	.0500	.0600	.0700	.0800	.0900	.1000	.1100	.1200
PHI	40.000	.0450	.0190	.0950	.0230	-.0120	-.1500	-.1570	-.1280	-.1260	.0080	.0080	.0080	.0080	.0080
PHI	70.000	.0020	-.0020	-.0200	.0560	.0280	.0150	.0080	.0120	.0150	.0120	.0120	.0120	.0120	.0120
PHI	90.000	.0280	.0070	.0900	.0620	.0710	.0150	-.0120	.0120	.0150	.0120	.0120	.0120	.0120	.0120
PHI	110.000	.0410	.0260	.3980	.2430	.0460	.0100	.0060	.0910	.0910	.0910	.0910	.0910	.0910	.0910
PHI	120.000	.0320	.0360	.4840	.4300	-.0080	.0130	.0970	.0970	.0970	.0970	.0970	.0970	.0970	.0970
PHI	135.000	.0290	.0360	.2120	.2990	-.0010	.1500	.1890	.1890	.1890	.1890	.1890	.1890	.1890	.1890
PHI	165.000	.0290	.0290	.2140	.4020	.2520	.2490	.0690	.0690	.0690	.0690	.0690	.0690	.0690	.0690
PHI	180.000	-.0150	-.0150	.1570	.1570	.1570	.1570	.1570	.1570	.1570	.1570	.1570	.1570	.1570	.1570

MACH (2) = 2.000 BETAT (4) = -.160

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI	180.000	1.5130	.9320	.4810	.0690	.0200	.1880	.1390	.1390	.1390	.1390	.1390	.1390	.1390	.1390
PHI	20.000	.4780	.1080	.0900	.0900	.2190	.2190	.1140	.1140	.1140	.1140	.1140	.1140	.1140	.1140
PHI	40.000	.5020	.1080	.1270	.1270	.2250	.2250	.1130	.1130	.1130	.1130	.1130	.1130	.1130	.1130
PHI	55.000	.4960	.1070	.1540	.1540	.3130	.3130	.2090	.2090	.2090	.2090	.2090	.2090	.2090	.2090
PHI	70.000	.4890	.0710	.0810	.0810	.2880	.2880	.2710	.2710	.2710	.2710	.2710	.2710	.2710	.2710
PHI	90.000	.4920	.0590	.0660	.0660	.1830	.1830	.4060	.4060	.4060	.4060	.4060	.4060	.4060	.4060
PHI	120.000	.5350	.1470	.1450	.1450	.1700	.1700	.3090	.3090	.3090	.3090	.3090	.3090	.3090	.3090
PHI	142.000	.5730	.2000	.2510	.2510	.4920	.4920	.7350	.7350	.7350	.7350	.7350	.7350	.7350	.7350
PHI	150.000	.5730	.2000	.2510	.2510	.4920	.4920	.9500	.9500	.9500	.9500	.9500	.9500	.9500	.9500
PHI	162.000	.5730	.2000	.2510	.2510	.4920	.4920	.7110	.7110	.7110	.7110	.7110	.7110	.7110	.7110
PHI	165.000	.5730	.2000	.2510	.2510	.4920	.4920	.7370	.7370	.7370	.7370	.7370	.7370	.7370	.7370
PHI	169.000	.5730	.2000	.2510	.2510	.4920	.4920	.9770	.9770	.9770	.9770	.9770	.9770	.9770	.9770
PHI	172.000	.5730	.2000	.2510	.2510	.4920	.4920	.9770	.9770	.9770	.9770	.9770	.9770	.9770	.9770
PHI	180.000	1.5130	1.1450	.5170	.2670	.2960	.5930	1.090	1.090	1.090	1.090	1.090	1.090	1.090	1.090
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392	.1560	-.1050	-.0340	-.0580	-.1680

PHI	.0000	.0500	.0290	-.0010	-.0380	-.0840	-.0860	-.1880	-.1360	-.1020	-.1150	-.1150	-.1150	-.1150	-.1150
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TABLATED PRESSURE DATA - 1A9B
AMES 97-707 1A9 OCA + S3 + T9 ORBITER FUSELAGE

(R80824)

MACH (2) = 2.000 BETAT (4) = -.160

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI

75.000 -.0180 -.0270 -.0230 .0190 .0100 -.0180 -.0330 -.0330

90.000 .0090 -.0200 .0750 .0240 .0360 -.0180 -.0440 -.0440

105.000 .0000 .0000 .1080 .0750 .0360 -.0320 -.0610 -.0610

110.000 .0280 .0160 .2520 .1040 -.0360 -.0370 -.0160 -.0160

120.000 .0570 .0570 .3960 .3960 -.0370 .0210 .0680 .0680

135.000 .0120 .0230 .2420 .3870 .0640 .1180 .1050 .1050

150.000 .0080 .0080 .2490 .4460 .2510 .1980 .0160 .0160

165.000 .0260 .0120 .0380 .0380 .0380 .0380 .0380 .0380

MACH (2) = 2.000 BETAT (5) = 3.920

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CF

X/LB .0000 .0075 .0188 .0339 .0602 .1355 .1506 .1581 .1732 .1958 .2259 .2711 .3200 .3953 .5120

PHI

20.000 1.4920 .9020 .4310 .0660 .0290 .1870 .1230 .0340 -.0260 .0190

40.000 .3970 .0720 .0230 .1820 .1420 .0990 .0340 -.0270 -.0180

60.000 .3690 .0740 .0650 .1570 .1810 .1790 .0340 -.0270 -.0180

80.000 .3690 .0550 .0730 .1590 .1810 .1810 .0340 -.0270 -.0180

100.000 .3650 .0340 .0180 .1170 .2550 .1810 .0340 -.0270 -.0180

120.000 .3650 .0210 .0160 .1290 .2760 .1520 .0340 -.0270 -.0180

140.000 .4310 .0820 .1770 .0860 .1970 .0780 .0340 -.0270 -.0180

160.000 .5010 .1660 .2100 .3430 .6210 .1370 .0340 -.0270 -.0180

180.000 .5010 .1660 .2100 .3430 .6660 .1370 .0340 -.0270 -.0180

200.000 .5010 .1660 .2100 .3430 .6660 .1370 .0340 -.0270 -.0180

220.000 .5010 .1660 .2100 .3430 .6660 .1370 .0340 -.0270 -.0180

240.000 .5010 .1660 .2100 .3430 .6660 .1370 .0340 -.0270 -.0180

260.000 .5010 .1660 .2100 .3430 .6660 .1370 .0340 -.0270 -.0180

280.000 .5010 .1660 .2100 .3430 .6660 .1370 .0340 -.0270 -.0180

300.000 .5010 .1660 .2100 .3430 .6660 .1370 .0340 -.0270 -.0180

320.000 .5010 .1660 .2100 .3430 .6660 .1370 .0340 -.0270 -.0180

340.000 .5010 .1660 .2100 .3430 .6660 .1370 .0340 -.0270 -.0180

360.000 .5010 .1660 .2100 .3430 .6660 .1370 .0340 -.0270 -.0180

380.000 .5010 .1660 .2100 .3430 .6660 .1370 .0340 -.0270 -.0180

400.000 .5010 .1660 .2100 .3430 .6660 .1370 .0340 -.0270 -.0180

420.000 .5010 .1660 .2100 .3430 .6660 .1370 .0340 -.0270 -.0180

440.000 .5010 .1660 .2100 .3430 .6660 .1370 .0340 -.0270 -.0180

460.000 .5010 .1660 .2100 .3430 .6660 .1370 .0340 -.0270 -.0180

480.000 .5010 .1660 .2100 .3430 .6660 .1370 .0340 -.0270 -.0180

500.000 .5010 .1660 .2100 .3430 .6660 .1370 .0340 -.0270 -.0180

X/LB .0000 .0180 .0140 .0450 .0370 .0310 .0580 .0260 .0240 .0190 .0190 .0190 .0190 .0190

PHI

40.000 -.0140 -.0370 -.0450 -.0140 -.0160 -.0140 -.0380 -.0570 -.0570

60.000 -.0140 -.0450 -.0450 -.0140 -.0160 -.0140 -.0380 -.0570 -.0570

80.000 .0020 -.0370 .0310 .0310 .0310 .0310 .0310 .0310 .0310

100.000 .0580 .0260 .0260 .0260 .0260 .0260 .0260 .0260 .0260

120.000 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190

140.000 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190

160.000 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190

180.000 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190

200.000 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190

220.000 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190

240.000 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190

260.000 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190

280.000 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190

300.000 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190

320.000 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190

340.000 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190

360.000 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190

380.000 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190

400.000 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190

420.000 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190

440.000 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190

460.000 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190

480.000 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190

500.000 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190 .0190

(R00824)

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.000 BETAT (5) = 3.920

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
165.000				.2160	.5130	.1950	.1110	-.0240		
180.000				-.0160	-.0110	.1250				

MACH (2) = 2.000 BETAT (6) = 5.960

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5000	.5075	.5168	.5339	.5632	.6355	.6506	.6581	.6732	.6958	.7211	.7250	.7350	.7553	.5120
PHI															
.000	1.4940	.9280	.5020	.0750	.0140	.1810		.0940	.0775	.0190	.0240	-.0350	-.0010		
20.000			.4460	.0700	-.0790	.1660		.0860	.0840			-.0540	-.0390		
40.000			.3980	.0700	.0660	.1300		.1280	.0540	.0110	-.0260	-.0420	-.0390		
55.000			.3560	.0520	.0130	.1100		.1650	.1650	-.0340	-.1110	-.0940	-.0160		
70.000			.3210	-.0220	-.0410	.0890		.1730	.1730	-.0570	-.0460	-.0100	-.0200		
90.000			.8560	-.0510	-.0410	.0600		.1880	.1330	-.0570	-.0460	-.0100	-.0200		
120.000			.3920	.0520	.0480	.0380		.0880	-.0730	-.0640	-.0840	-.0440	-.0520		
142.000			.4770	.1580	.1890	.4420		.5540	-.0500	-.1700	.0000	-.0140	-.0260		
157.000								.6370							
162.000									-.1860	-.1480	-.0910	-.0850	-.0570		
165.000															
169.000															
172.000															
180.000	1.4940	1.1280	.5060	.2620	.2950	.6390	1.0530	.9590	-.1450	-.1040	-.0470	-.0100	-.0340		

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392
PHI										
.000	-.0090									
40.000	-.0420									
70.000	-.0220	-.0590	-.0180	-.0190	-.0500	-.0700	-.0920			
90.000	-.0070	-.0480	.0130	-.0170	-.0180	-.0640	-.0950			
105.000			.0450	-.0260	-.0180	-.0640	-.0950			
110.000										
120.000	-.0170	-.0170	.1870	-.0250	-.1440	-.1090	-.0760			
135.000			.6820	.3620	-.0980	-.1030	-.1060			
150.000	-.0630	-.0710	.0510	.3420	.0950	.0420	.0310			
165.000	-.0710	.2270	.3680	.1380	.0670	-.0540				
180.000	-.0630	-.0690	.0590							

REFERENCE DATA

STEP = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0350 SCALE

MACH (1) = 1.555 BETAT (1) = -8.320

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	PHI	0.000	.0075	.0188	.0339	.0602	.1355	.1956	.1581	.1732	.1958	.2259	.2711	.3210	.3953	.5120
00.000	1.3540	.9980	.4750	-.0810	.1290	-.0320										
20.000		.5990	.0730	.1360	-.0150											
40.000		.7770	.2010	.3270	.1260											
55.000		.8370	.3190	.4460	.2170											
70.000		.8110	.3850	.4250	.2560											
90.000		1.2140	.7240	.3030	.4270	.2870										
120.000		.5920	.2330	.3690	.3290											
140.000		.4840	.1040	.3070	.7350											
150.000					.9870											
157.000																
162.000																
165.000																
169.000		1.3540	.8530	.2870	.0830	.1890	.6310									
172.000																
180.000		.5970	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
X/LB	PHI	.000	-.1130	.3640	.2550	.2010	-.0220	-.2580	-.1340							
40.000		.0000	.0000	-.0890	-.0290	.0150	.0380	-.0130	-.0340							
70.000				-.0670	-.0030	.0670	.0580	-.0330	-.0550							
90.000						.2030	.1720	.0400	-.0730	-.0710						
105.000																
110.000																
120.000																
135.000																
150.000																
165.000																
180.000																

PARAMETRIC DATA

ALPHAT = .0000 ORBINC = .0000
 RUDDER = 15.0000 ELEVON = .0000
 RUDDFLR = .0000

DATE 20 SEP 73

TABLULATED PRESSURE DATA - IA98

AVES 97-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE

(RBC825)

MACH (1) = 1.555 BETAT (2) = -6.270

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	PHI	0.000	0.0075	0.0100	0.0339	0.0602	0.1355	0.1956	0.1961	0.1732	0.1958	0.2259	0.2711	0.3200	0.3953	0.5120
PHI																
0.000	1.3750	1.0120	.4030	-.1030	0.420	0.0120				-.0390		-.1030	-.1280	-.0480	-.0480	-.0620
20.000			.5715	0.0680	0.980	0.0070				-.0420		-.1030	-.1270	0.0720	0.0770	0.0140
40.000			.7115	0.1870	0.2780	0.430				-.0850		0.1950				
55.000			.7950	0.2120	0.3750	0.1970				0.1010		0.1950	-.1320	-.1870	0.0120	0.0165
70.000			.7320	0.2540	0.3550	0.2380				0.2220		0.0930	-.1820	-.1740	-.0820	-.0080
90.000	1.1170		.6350	0.2200	0.3490	0.2720				0.3610		0.0430	-.1800	-.1540	-.1400	-.0390
120.000			.5450	0.1840	0.3140	0.3740				0.5090						
142.000			.4620	0.1830	0.2690	0.7440				0.7000		-.1160	-.1710	0.0200	-.1410	-.0450
150.000									0.9710							
157.000										0.6190			-.0960	-.1360	-.1230	-.0380
162.000										0.4770						
165.000										0.6990			-.3670	-.2080	-.1890	-.2270
169.000																
172.000																
180.000	1.3750	0.8700	0.2990	0.0920	0.1940	0.6850	1.1000			0.9639	1.0015	1.0392				

MACH (1) = 1.555 BETAT (3) = -4.240

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	PHI	0.000	0.0075	0.0100	0.0339	0.0602	0.1355	0.1956	0.1961	0.1732	0.1958	0.2259	0.2711	0.3200	0.3953	0.5120
PHI																
0.000	1.3610	1.0320	.5090	-.1030	0.420	0.0120				0.1800		0.0770	-.1220	-.1330	0.0240	-.0360
20.000			.5500	0.0110	0.920	0.0210				0.0160		0.0740				
40.000			.6510	0.0520	0.2160	0.490				-.0730		-.0520	-.1230	0.0660	-.0220	0.0200
55.000			.5750	0.1160	0.2920	0.1770				0.0820		0.0820				
70.000			.6470	0.1610	0.2690	0.2130				0.2100		0.0710	-.1510	-.2150	0.0380	-.0120
90.000	1.0930		.5720	0.1350	0.2450	0.2440				0.3370		0.0670	-.1870	-.1960	-.0780	-.0270
120.000			.4910	0.1180	0.2510	0.3970				0.4560		0.0350	-.1990	-.1810	-.1610	-.0400

(RB0825)

TABULATED PRESSURE DATA - 1A98

AWES 97-757 1A9 O2A + S3 + T9 ORBITER FUSELAGE

DATE 20 SEP 73

MACH (1) = 1.555 BETAT (3) = -4.240

DEPENDENT VARIABLE CP

SECTION (1) ORBITER FUSELAGE

X/LB	.0000	.0075	.0168	.0339	.0612	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
142.0000															
150.0000															
157.0000															
162.0000															
165.0000															
169.0000															
172.0000															
180.0000															
X/LE	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					

X/LE	.0000	.0075	.0168	.0339	.0612	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
40.0000															
70.0000															
90.0000															
110.0000															
120.0000															
135.0000															
150.0000															
165.0000															
180.0000															

MACH (1) = 1.555 BETAT (4) = -1.130

DEPENDENT VARIABLE CF

SECTION (1) ORBITER FUSELAGE

X/LB	.0000	.0075	.0168	.0339	.0612	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
20.0000															
40.0000															
55.0000															
70.0000															
90.0000															
120.0000															
142.0000															
150.0000															
157.0000															
162.0000															
165.0000															
169.0000															
172.0000															

1.0500

(R8025)

TABLATED PRESSURE DATA - 1A98

DATE 25 SEP 73

AMES 97-707 1A9 C2A + S3 + 19 ORBITER FUSELAGE

BETAT (4) = -.130

MACH (1) = 1.555

DEPENDENT VARIABLE CP

SECTION (1) ORBITER FUSELAGE

X/LB .0700 .0075 .0188 .0339 .0602 .1355 .1506 .1561 .1752 .1956 .2259 .2711 .3200 .3953 .5120

PMI 1.4040 .8980 .3130 .1030 .1950 .8920

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PMI -.0270 -.0450 -.0800 -.1050 -.1090 -.0520 -.0370 -.0110 -.1190

X/LB .0910 -.0740 -.0700 .0660 .0140 -.0570 -.1340 -.1280

PMI 110.0000 120.0000 135.0000 150.0000 165.0000 180.0000

X/LB .0210 .0310 .0320 .0200 .0190 .0250 .0420 .0370 .0290 .0720

PMI -.0300 -.0490 -.0220 -.0170 -.0210 -.0100 -.0370 -.0160

X/LB -.0390 -.0490 -.0220 -.0170 -.0210 -.0100 -.0370 -.0160

PMI 125.0000 135.0000 150.0000 165.0000 180.0000

X/LB .0250 .0340 .0260 .0240 .0210 .0210 .0340 .0370 .0290 .0720

PMI -.0220 -.0220 -.0220 -.0220 -.0220 -.0220 -.0220 -.0220

X/LB .0210 .0210 .0210 .0210 .0210 .0210 .0210 .0210

PMI -.0210 -.0210 -.0210 -.0210 -.0210 -.0210 -.0210 -.0210

X/LB .0210 .0210 .0210 .0210 .0210 .0210 .0210 .0210

PMI -.0210 -.0210 -.0210 -.0210 -.0210 -.0210 -.0210 -.0210

X/LB .0210 .0210 .0210 .0210 .0210 .0210 .0210 .0210

PMI -.0210 -.0210 -.0210 -.0210 -.0210 -.0210 -.0210 -.0210

BETAT (5) = 3.950

MACH (1) = 1.555

DEPENDENT VARIABLE CP

SECTION (1) ORBITER FUSELAGE

X/LB .0220 .0375 .0188 .0339 .0632 .1355 .1506 .1561 .1732 .1958 .2259 .2711 .3200 .3953 .5120

PMI 1.3950 1.0350 .4840 -.1220 -.0740 .0270

X/LB .4610 -.1240 -.1160 -.0260

PMI .4560 -.1240 -.0890 .0490

X/LB .4150 -.1920 -.0750 .0990

PMI .3570 -.0920 -.0730 .1490

X/LB .3050 -.1170 -.0650 .1650

PMI .2940 -.0820 .0100 .3360

X/LB .3260 .0050 .1140 .6150

PMI 157.0000

X/LB .162.0000

PMI 165.0000

X/LB .169.0000

PMI 172.0000

X/LB .180.0000

PMI .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

X/LB .0680 .6860

PMI -.0240 -.0920 .1040

X/LB -.0240 -.0920 .1040

PMI -.0240 -.0920 .1040

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(REC0825)

AMES 97-707 1A9 ORA + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.555 BETAT (6) = 5.991

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .5875 .6826 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI
165.0000 -.1080 .3000 .4830 .1400 .0540 -.1380
180.0000 -.2020 -.0810 .1090

MACH (1) = 1.555 BETAT (7) = 8.040

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB .5875 .6826 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI
165.0000 .9970 .4760 .0560 .1480 .0380
180.0000 .4010 .0850 .1080 .0600
45.0000 .3300 .0560 .0910 .0710
55.0000 .2640 .1240 .1450 .0320
70.0000 .1960 .2130 .1790 .1040
90.0000 .7030 .1560 .2160 .1790 .1770
120.0000 .1680 .1410 .1080 .2930
142.0000 .2470 .0340 .0660 .4110
150.0000
157.0000
162.0000
165.0000
169.0000
172.0000
180.0000 1.3310 .8820 .2910 .0930 .2190 .6460

X/LB .5875 .6826 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI
165.0000 -.1260
180.0000 -.0790
45.0000 .0340 .0590
55.0000 -.0340 .0590
70.0000 .0590 .1100
90.0000 .0110 .0590
120.0000 .1875 .0590
135.0000 .7300 .3580
150.0000 .2190 .2910
165.0000 .1090 .3300
180.0000 .1090 .2250

PHI
165.0000 .0340 .0590 .1100 .1650 .1570 .0640
180.0000 .1130
45.0000 .1370
55.0000 .1870 .1120 .1510 .1460
70.0000 .1410 .1650 .1570 .0640
90.0000 .1650 .1570 .0640
120.0000 .1875 .1830 .1650 .1340
135.0000 .1620 .1770
150.0000 .1030 .0990
165.0000 .1160 .1190
180.0000 .1160 .1190

PHI
165.0000 -.1320
180.0000 -.1430
45.0000 -.1190
55.0000 .0720
70.0000 .1720
90.0000 .2020
120.0000 .1160
135.0000 .3620
150.0000 .3570
165.0000 .4530
180.0000 .6550

PHI
165.0000 .2250 .2711 .2259 .1732 .1581 .1516 .1581 .1732 .1958 .2259 .2711 .3270 .3953 .5120
180.0000 -.1320
45.0000 -.1430
55.0000 -.1190
70.0000 .0720
90.0000 .1720
120.0000 .2020
135.0000 .3620
150.0000 .3570
165.0000 .4530
180.0000 .6550

AMES 97-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE

(RBCB26)

MACH (1) = 1.555 BETAT (2) = -6.260

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI	1.3120	1.0620	.5540	-.0820	-.0390	.0020	.0020	.0020	-.0400	-.0400	-.0470	-.1310	-.1150	-.0970	-.0260
20.000	.6480	.0620	.0400	.0020	.0020	.0020	.0020	.0020	-.0890	-.0890	-.0170	-.0780	-.0360	.0240	.0340
40.000	.7580	.1830	.2610	.0220	.0220	.0220	.0220	.0220	.0580	.0580	.1930	.1930	.1930	.1930	.1930
55.000	.7840	.2670	.3550	.1520	.1520	.1520	.1520	.1520	.1130	.1130	.1510	-.0680	-.1440	-.0530	-.0260
70.000	.7340	.2990	.3180	.1840	.1840	.1840	.1840	.1840	.2680	.2680	.0800	-.1320	-.1570	-.0930	-.0480
90.000	.6260	.2030	.3190	.2090	.2090	.2090	.2090	.2090	.4710	.4710	-.0030	-.1990	-.1880	-.1530	-.1070
120.000	.4720	.1440	.2620	.2400	.2400	.2400	.2400	.2400	.6260	.6260	-.1630	-.2160	.0020	-.1720	-.1040
142.000	.3690	.0160	.1880	.6230	.6230	.6230	.6230	.6230	.9020	.9020	-.2630	-.1410	-.1810	-.1440	-.0980
150.000	.1570	.1440	.1070	.5770	.5770	.5770	.5770	.5770	.6150	.6150	-.3880	-.2640	-.2280	-.2620	-.2090
162.000	.1650	.0760	.2090	.0190	.0190	.0190	.0190	.0190	.9360	.9360	-.0170	-.0170	-.0170	-.0170	-.0170
169.000	.5870	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392	-.0170	-.0170	-.0170	-.0170	-.0170
172.000															
180.000															

MACH (1) = 1.555 BETAT (3) = -4.220

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI	1.3270	1.2410	.5340	-.1450	-.1790	.0320	.0320	.0320	.0310	.0310	-.0530	-.1140	-.1360	-.0480	.0260
20.000	.6690	-.0160	-.0790	.0110	.0110	.0110	.0110	.0110	-.0550	-.0550	.0120	.0370	-.0710	.0230	-.0100
40.000	.7550	.0660	.1850	.0170	.0170	.0170	.0170	.0170	-.1010	-.1010	.0370	-.0710	.0230	-.0100	.0630
55.000	.7070	.1530	.2710	.1200	.1200	.1200	.1200	.1200	.0310	.0310	.1270	.1270	.1270	.1270	.1270
70.000	.6490	.1950	.2370	.1520	.1520	.1520	.1520	.1520	.0970	.0970	.0550	-.1230	-.1750	-.0750	-.0510
90.000	.5430	.1220	.2450	.1790	.1790	.1790	.1790	.1790	.0520	.0520	-.0320	-.1880	-.1860	-.1130	-.0780
120.000	.4190	.0790	.2030	.2290	.2290	.2290	.2290	.2290	.4250	.4250	-.0150	-.2190	-.2150	-.1770	-.1140

AMES 97-707 1A9 OSA + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.555 DETAT (4) = -.120

SECTION (1) ORBITER FUSELAGE

X/LB	PHI	DEPENDENT VARIABLE CP					
180.000	1.3370	.7800	.2120	.0270	.1010	.7540	
X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262
PHI							
40.000	1.3370	.7800	.2120	.0270	.1010	.7540	
PHI							
180.000	1.3370	.7800	.2120	.0270	.1010	.7540	
X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262
PHI							
40.000	1.3370	.7800	.2120	.0270	.1010	.7540	
PHI							
180.000	1.3370	.7800	.2120	.0270	.1010	.7540	
X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262
PHI							
40.000	1.3370	.7800	.2120	.0270	.1010	.7540	
PHI							
180.000	1.3370	.7800	.2120	.0270	.1010	.7540	
X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262

MACH (1) = 1.555 BETAT (5) = 3.960

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	PHI	DEPENDENT VARIABLE CP					
180.000	1.3320	1.1070	.5780	-.0830	-.0430	.0280	
X/LB	.0020	.0275	.0188	.0339	.0612	.1355	.1516
PHI							
20.000	1.3320	1.1070	.5780	-.0830	-.0430	.0280	
PHI							
20.000	1.3320	1.1070	.5780	-.0830	-.0430	.0280	
PHI							
40.000	1.3320	1.1070	.5780	-.0830	-.0430	.0280	
PHI							
55.000	1.3320	1.1070	.5780	-.0830	-.0430	.0280	
PHI							
70.000	1.3320	1.1070	.5780	-.0830	-.0430	.0280	
PHI							
90.000	1.3320	1.1070	.5780	-.0830	-.0430	.0280	
PHI							
120.000	1.3320	1.1070	.5780	-.0830	-.0430	.0280	
PHI							
142.000	1.3320	1.1070	.5780	-.0830	-.0430	.0280	
PHI							
150.000	1.3320	1.1070	.5780	-.0830	-.0430	.0280	
PHI							
157.000	1.3320	1.1070	.5780	-.0830	-.0430	.0280	
PHI							
165.000	1.3320	1.1070	.5780	-.0830	-.0430	.0280	
PHI							
169.000	1.3320	1.1070	.5780	-.0830	-.0430	.0280	
PHI							
172.000	1.3320	1.1070	.5780	-.0830	-.0430	.0280	
PHI							
180.000	1.3320	1.1070	.5780	-.0830	-.0430	.0280	
PHI							
X/LB	.5875	.6626	.7380	.7869	.8283	.8848	.9262
PHI							
180.000	1.3320	1.1070	.5780	-.0830	-.0430	.0280	
PHI							
40.000	1.3320	1.1070	.5780	-.0830	-.0430	.0280	
PHI							
180.000	1.3320	1.1070	.5780	-.0830	-.0430	.0280	
PHI							

DATE 20 SEP 73 TABULATED PRESSURE DATA - IA9B

AMES 97-707 IA9 O2A + S3 + T9 ORBITER FUSELAGE

(R80826)

MACH (2) = 2.000 BETAT (1) = -6.280

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1906	.1981	.1732	.1958	.2259	.2711	.3870	.3953	.5120
PHI															
.0000	1.3020	.9930	.6080	.1240	.0200	.1350		.0390							
20.0000		.6520	.2440	.1420	.1150			.0420							
40.0000		.7450	.2890	.4120	.1450			.0490							
55.0000		.7590	.3300	.5090	.3000			.2250							
70.0000		.7440	.3080	.4290	.3960			.2090							
90.0000	1.1560	.6780	.2180	.2820	.3500			.2820							
120.0000		.5760	.1910	.2260	.3550			.5980							
142.0000															
150.0000		.4800	.1280	.1630	.4460			.7470							
157.0000								.8980							
162.0000								.7120							
165.0000								.5310							
169.0000															
172.0000															
180.0000	1.3020	.8400	.3070	.1070	.1100	.5000	.6600	.7100							
X/LB	.9873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1906	.1981	.1732	.1958	.2259	.2711	.3870	.3953	.5120
PHI															
.0000	-0.0940														
40.0000	.1220	.0820	.2780	.2060	.1670	-.0470									
70.0000		-.0290	-.0540	-.0700	.0120	-.0150	-.0310								
90.0000		-.0180	-.0500	-.0450	.0590	.0160	-.0400								
105.0000			.1520	.2030	.0580	-.0040	-.0490								
110.0000															
120.0000		-.0750	-.0950	.5380	.2820	.0470	-.0280	-.0240							
135.0000			.1620	.1450	-.1400	-.1520	-.1370								
150.0000		-.0700	-.0670	.0350	.0040	-.1680	-.1660	-.0540							
165.0000		-.0390	.0660	.1170	.0520	.1040	.0120								
180.0000		-.1690	-.1620	-.0250											

MACH (2) = 2.000 BETAT (2) = -6.230

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1906	.1981	.1732	.1958	.2259	.2711	.3870	.3953	.5120
PHI															
.0000	1.3280	.9980	.6270	.1220	-.0020	.1750		.0710							
20.0000		.6500	.2160	.1020	.1580			.0680							
40.0000		.7020	.2160	.3550	.1530			.0550							
55.0000		.6930	.2580	.4440	.2760			.1880							
70.0000		.6700	.2500	.3730	.2940			.2170							
90.0000	1.1190	.6090	.1630	.2010	.3070			.2520							
120.0000		.5220	.1670	.1870	.3000			.5450							

TABLATED PRESSURE DATA - 1A99

(RDCB26)

AMES 97-207 1A9 O2A + S3 + T9 ORBITER FUSELAGE

DATE 20 SEP 73

WACH (2) = 2.000 BETAT (2) = -6.200

SECTION (1) ORBITER FUSELAGE DEFENDENT VARIABLE CP

X/LB	PHI	142.000	150.000	157.000	162.000	165.000	169.000	172.000	180.000
.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.0720	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.1440	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.2160	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.2880	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.3600	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.4320	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.5040	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.5760	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.6480	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.7200	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.7920	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.8640	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.9360	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
1.0080	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
1.0800	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
1.1520	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
1.2240	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
1.2960	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
1.3680	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
1.4400	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
1.5120	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
1.5840	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
1.6560	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
1.7280	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958

WACH (2) = 2.000 BETAT (3) = -4.200

SECTION (1) ORBITER FUSELAGE DEFENDENT VARIABLE CP

X/LB	PHI	142.000	150.000	157.000	162.000	165.000	169.000	172.000	180.000
.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.0720	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.1440	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.2160	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.2880	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.3600	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.4320	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.5040	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.5760	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.6480	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.7200	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.7920	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.8640	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
.9360	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
1.0080	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
1.0800	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
1.1520	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
1.2240	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
1.2960	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
1.3680	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
1.4400	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
1.5120	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
1.5840	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
1.6560	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958
1.7280	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958

(RDC026)

TABLULATED PRESSURE DATA - 1A9B
AMES 97-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE

DATE 20 SEP 73

MACH (2) = 2.0000 BETAT (5) = 3.950

SECTION (1) ORBITER FUSELAGE
DEPENDENT VARIABLE CF
X/LB .5873 .5626 .7380 .7869 .6283 .8849 .9262 .9639 1.0015 1.0392

PHI
165.0000 -.0890 .1420 .4070 .0180 .0350 -.0650
180.0000 -.0770 -.0730 .0470

MACH (2) = 2.0000 BETAT (6) = 5.990

SECTION (1) ORBITER FUSELAGE
DEPENDENT VARIABLE CF
X/LB .0000 .0075 .0188 .0339 .0602 .1355 .1506 .1581 .1732 .1958 .2259 .2711 .3200 .3953 .5120

PHI
1.3290 1.0360 .6260 .0980 -.0450 .1830
200.0000 .5820 .0940 -.0820 .2220
400.0000 .4990 .0930 -.0700 .1670
55.0000 .4110 .0930 .0300 .0560
70.0000 .3290 .0420 .0480 .0330
90.0000 .7600 .2630 .0720 .0480 .0110
120.0000 .2550 .0020 .0350 .0430
142.0000 .2890 .0170 .0500 .2750
150.0000
157.0000
162.0000
165.0000
169.0000
172.0000
180.0000

X/LB .0000 .0075 .0188 .0339 .0602 .1355 .1506 .1581 .1732 .1958 .2259 .2711 .3200 .3953 .5120
PHI
1.3290 1.0360 .6260 .0980 -.0450 .1830
200.0000 .5820 .0940 -.0820 .2220
400.0000 .4990 .0930 -.0700 .1670
55.0000 .4110 .0930 .0300 .0560
70.0000 .3290 .0420 .0480 .0330
90.0000 .7600 .2630 .0720 .0480 .0110
120.0000 .2550 .0020 .0350 .0430
142.0000 .2890 .0170 .0500 .2750
150.0000
157.0000
162.0000
165.0000
169.0000
172.0000
180.0000

MACH (2) = 2.0000 BETAT (6) = 5.990

SECTION (1) ORBITER FUSELAGE
DEPENDENT VARIABLE CF
X/LB .5873 .6626 .7380 .7869 .6283 .8848 .9262 .9639 1.0015 1.0392

PHI
105.0000 -.0610
40.0000 -.0010
70.0000
90.0000
105.0000
120.0000
135.0000
150.0000
165.0000
180.0000

PHI
105.0000 -.0610
40.0000 -.0010
70.0000
90.0000
105.0000
120.0000
135.0000
150.0000
165.0000
180.0000

DATE 20 SEP 73

TABULATED PRESSURE DATA - 1A9B

(RD0827)

AMES 97-707 1A9 ORA + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.555 BETAT (3) = -4.233

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.9275	.9188	.9339	.9602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3230	.3953	.5120
PHI														
142.500														
150.500														
157.500														
162.500														
165.500														
169.500														
172.500														
180.500	1.4360	.7010	.1550	-.0190	.0770	.5510	.8290	.5980	-.3910	-.2630	-.2260	-.1920	-.1560	
X/LB	.9873	.6626	.7380	.7869	.8283	.8648	.9262	.9639	1.0015	1.0392				

PHI

.500	.0340													
40.500	.1030	.4260	.2180	.1790	-.0500	-.2810	-.0340							
70.500	-.1280	-.1420	-.2030	-.1020	-.1010	-.1080	-.1260							
90.500	-.1090	-.1010	-.0930	-.0390	-.0350	-.1330	-.1550							
105.500			.1170	.1150	-.0330	-.1470	-.1810							
110.500														
120.500	-.1260	-.1360	.5240	.1450	-.0960	-.1330	-.1420							
135.500			.2810	.1680	-.2050	-.1520	-.0310							
150.500	-.0930	.0020	.0870	.0980	-.0920	.0030	.0220							
165.500	-.0720	.1030	.1030	.2450	.0670	.0560	-.1140							
180.500	-.1220	-.0450	.1120											

MACH (1) = 1.555 BETAT (4) = -.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3230	.3953	.5120
PHI															
.500	1.4890	1.2110	.5070	-.1800	-.1660	.1610	.0640								
20.500			.5520	-.1470	-.1630	.0910	-.0230								
40.500			.6310	-.0810	-.0350	.0370	-.0580								
55.500			.6240	-.0210	.0570	.0950	.0060								
70.500			.5440	.0200	.0210	.1120	.0470								
90.500	.9910	.4020	-.0360	.0440	.1250	.1630	.2390								
120.500		.2730	-.0320	.0550	.1630		.3120								
142.500		.2420	-.0720	.0650	.5820		.5390								
150.500							.7710								
157.500							.4410								
162.500							.3930								
165.500															
169.500															
172.500															

.9720

DATE 20 SEP 73

TABULATED PRESSURE DATA - 1498

(REC027)

AMES 97-707 1A9 OZA + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.555 BETAT (4) = -.110

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0220	.0075	.0188	.0339	.0602	.1355	.1556	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI	1.4090	.7020	.1510	-.0190	.0650	.6890			.5910						
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI	.0280	.0480	.0850	.0980	-.1150	-.3210									
40.000	-.1310	-.1470	-.2030	-.1030	-.1190	-.1350	-.1580								
70.000	-.1140	-.0990	-.0120	-.0680	-.0980	-.1710	-.1890								
90.000		.0820	.0290	.0990	-.1870	-.2160									
110.000															
120.000		-.0750	-.0570	.3680	.0460	-.1590	-.1660	-.1430							
135.000				.3300	.2170	-.1630	-.0820	-.0330							
150.000		-.0370	.0450	.1770	-.0230	-.0240	-.0540								
165.000		-.0330	.1830	.2380	.0720	.0130	-.1670								
180.000		-.0260	-.0120	.1640											

MACH (1) = 1.555 BETAT (5) = 3.990

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1516	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI	1.3190	1.2470	.5570	-.1340	-.1660	.0580			.0520						
20.000		.5160	-.1440	-.1890	.0730				.0210						
40.000		.5280	-.1450	-.1640	.0740				-.0240						
55.000		.4820	-.1200	-.1090	.0650				-.0110						
70.000		.3890	-.1060	-.1360	.0510				.0940						
90.000		.2670	-.1470	-.0920	.0980				.2410						
120.000		.1910	-.1290	-.0500	.2550				.1950						
142.000			.1890	-.1020	.0010	.5140			.4610						
157.000						.6930									
162.000									.3920						
165.000									.3900						
169.000															
172.000															
180.000		1.3190	.7370	.1560	-.0240	.0600	.5900		.5810						
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					
PHI	.0280	.0480	.0850	.0980	-.1150	-.3210									
40.000	-.1310	-.1470	-.2030	-.1030	-.1190	-.1350	-.1580								
70.000	-.1140	-.0990	-.0120	-.0680	-.0980	-.1710	-.1890								

(RDC827)

DATE 20 SEP 73
 TABULATED PRESSURE DATA - IAPS
 AMES 97-707 IAS CCA + S3 + T9 ORBITER FUSELAGE

MACH (1) = 1.555 BETAT (5) = 3.990
 SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP
 X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI	-.1220	-.1460	-.1680	-.0820	-.0340	-.0890	-.1260
70.000	-.0680	-.1000	-.0240	-.0370	-.0590	-.1050	-.1210
90.000		.0320	.0290	-.0610	-.1340	-.1290	.0450
100.000			.0240	-.1390	-.1190	-.1060	-.0970
110.000	-.0360	-.0180	.1790	.4120	.3050	-.1200	-.0580
120.000		-.0250	-.0170	.2510	.3240	-.0210	-.0470
130.000		-.0320	-.0490	.2730	.3190	.0940	-.0250
140.000		-.1220	-.0490	.1050			

MACH (1) = 1.555 BETAT (6) = 6.030

SECTION (1) ORBITER FUSELAGE	DEPENDENT VARIABLE CP
X/LB	.0000 .0075 .0168 .0339 .0602 .1355 .1506 .1581 .1732 .1958 .2259 .2711 .3200 .3953 .5120
PHI	1.3130 1.0990 .5770 -.0950 -.0730 .0280
20.000	.5150 -.0950 -.1170 .0220
40.000	.4630 -.0950 -.1360 .0240
55.000	.3790 -.0810 -.1470 .0180
70.000	.2860 -.1230 -.1560 .0830
90.000	.7430 .2010 -.1870 -.1400 .1170
120.000	.1460 -.1580 -.0970 .2510
142.000	.1530 -.1150 -.0200 .4460
150.000	
157.000	
162.000	
165.000	
169.000	
172.000	.7320 .1540 -.0270 .0730 .5450
180.000	1.3130 .7320 .1540 -.0270 .0730 .5450

X/LB	.5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392
PHI	.0040 .0240 .1640 -.0270 .0680 .0290 .0750 -.0930 -.1670 -.1690
40.000	.1020
70.000	.0200 -.0260 .0750 -.0070 -.0930 -.1670 -.1690
90.000	
100.000	
110.000	.0470 .0300 .2810 .0070 -.1840 -.1580 -.1470
120.000	
130.000	.0040 .0300 .2820 .3050 -.0670 -.0340 -.0650
140.000	

X/LB	.0000 .0075 .0168 .0339 .0602 .1355 .1506 .1581 .1732 .1958 .2259 .2711 .3200 .3953 .5120
PHI	-.0260 -.0100 -.0520 -.0170 -.0230 -.2670 -.3290 -.2000 -.0800
20.000	-.1530 -.1620 -.1230 -.0210 -.0810 -.0520 -.2910 -.3270 -.0810
40.000	-.0410 -.0230 -.2670 -.3290 -.2000 -.0800
55.000	-.0520 -.2910 -.3270 -.0810 -.0520 -.2910 -.3270 -.0810
70.000	-.1270 -.3180 -.3080 -.2340 -.0940
90.000	-.3380 -.3050 .0000 -.1940 -.1550
120.000	
142.000	
150.000	
157.000	
162.000	
165.000	
169.000	
172.000	-.4140 -.3270 -.1890 .1920 -.2370
180.000	-.3910 -.2730 -.2690 -.3020 -.2360

AMES 97-717 IA9 O2A + S3 + T9 ORBITER FUSELAGE

(RDC827)

MACH (2) = 2.000 BETAT (1) = -8.300

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
	1.2750	1.0060	.6270	.1290	.0100	.1140			.0290		-.0450	-.0330	-.0670	-.0590	-.0200
			.6920	.2630	.1430	.0730			.0160		-.0440				
			.7810	.3640	.4130	.1080			.0200		-.0360	-.0740	-.0680	.0970	.1150
			.7890	.3830	.4970	.2830			.1900		.1050				
			.7540	.3400	.4080	.3050			.2170		.1720	.0610	-.0740	-.0420	.0570
		1.1360	.6600	.2150	.3620	.3120			.2410		.2190	-.0360	-.0900	-.0650	.0020
			.5290	.1590	.2050	.2880			.5430		.0970	-.0590	-.0330	-.0240	-.0750
			.4250	.0680	.1330	.3790			.6770		-.0890	-.0790	.0000	-.0160	-.0130
							.8150		.6430						
									.4750		-.0870	-.0370	-.0710	-.0680	-.0390
							.7290		.6470		-.2170	-.1810	-.2680	-.2440	-.1350

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI

	-.0480														
	.1140	.1090	.3020	.2570	.1910	-.0480			-.0810		-.0560				
		-.0390	-.0620	-.0850	-.0720	-.0290	-.0580		-.1700						
		-.0240	-.0600	-.0590	.0510	.0270	-.0530								
			.1360	.1840	.0750	-.0190	-.0620								
		-.1010	.5850	.2930	.0240	-.0220	-.0420	.0680							
			.0950	.1330	-.1160	-.1670	-.1610	-.0020							
		-.0900	.0300	-.0390	-.1850	-.1320	-.1010								
		-.0540	.0460	.0890	.0090	.0600	-.0050								
		-.1840	-.1620	-.0950											

MACH (2) = 2.000 BETAT (2) = -6.250

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3200	.3953	.5120
PHI															
	1.2910	1.0270	.6440	.1340	-.0010	.1690			.0660		.0330	-.0260	-.0810	-.0800	-.0360
			.6810	.2520	.1060	.1320			.0540		-.0190				
			.7320	.2610	.3550	.1230			.0290		-.0250	-.0740	-.0660	.0730	.0850
			.7190	.3140	.4310	.2470			.1930		.0780				
			.6810	.2910	.3500	.2640			.1890		.1530	-.0280	-.1010	-.0660	.0170
		1.0830	.6160	.1760	.2210	.2700			.2170		.1830	-.0530	-.1080	-.0970	-.0240
			.5140	.1430	.1770	.2470			.6930		.0890	-.0820	-.0260	-.0250	-.0390

TABULATED PRESSURE DATA - 1A9B

(R00828)

DATE 20 SEP 73

AMES 97-707 1A9 OCA + S3 + T9 ORBITER FUSELAGE

BETAT (5) = 4.000

MACH (1) = 1.555

SECTION (1) ORBITER FUSELAGE

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PMI	-.1290	-.1570	-.1910	-.0630	-.0640	-.1060	-.1350
70.000	-.0760	-.1090	-.0330	-.0490	-.0740	-.1240	-.1360
90.000		.0270	.0390	-.0730	-.1510	-.1920	
110.000							.0360
120.000	-.0370	-.0120	.2020	.0560	-.1310	-.1220	-.1180
130.000			.3520	.2710	-.1030	-.0610	-.0620
150.000	-.0220	-.0360	.2440	-.0170	-.0350	-.0520	
165.000	-.0210	.2540	.2880	.0870	.0190	-.1710	
180.000	-.0940	-.0540	.1010				

MACH (1) = 1.555 BETAT (6) = 6.060

SECTION (1) ORBITER FUSELAGE

X/LB .7820 .8075 .8188 .8339 .8602 .1355 .1506 .1581 .1732 .1958 .2255 .2411 .3270 .3953 .5120

PMI	1.2650	1.1970	.5580	-.1530	-.1780	.0320	.0100
20.000	.5140	-.1450	-.2010	.0460			-.1160
40.000	.4670	-.1250	-.1880	.0420			-.1690
35.000	.4160	-.1080	-.1710	.0030			-.0460
70.000	.2950	-.1160	-.2020	.0860			-.0320
90.000	.7340	.1810	-.1970	-.1560	.0660		-.0520
120.000		.1080	-.1850	-.1110	.2130		-.1320
142.000		.1070	-.1530	-.0420	.3840		-.3450
150.000							-.3180
157.000							.0370
162.000							.2790
165.000							.3320
169.000							.5130
172.000	1.2650	.6580	.1010	-.0730	.0430	.4680	
180.000	.5873	.6626	.7380	.7869	.8283	.8848	.9262

.6040

.7480

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PMI	.0370	.0590	.0780	-.0390	-.1660	-.1030	-.0920
40.000	.2220	.1330	.0780	-.0390 <td>-.1660 <td>-.1030 <td>-.0920</td> </td></td>	-.1660 <td>-.1030 <td>-.0920</td> </td>	-.1030 <td>-.0920</td>	-.0920
70.000		-.0070	-.1120	-.0510	-.1080	-.1380	-.1710
90.000		-.0410	-.0410	-.0690	-.1110	-.1760	-.1790
110.000			.0810	-.0420	-.1130	-.1880	-.1990
130.000			.2190	-.0420	-.1620	-.1660	-.1580
150.000			.4710	.2310	-.1420	-.1030	-.1000
180.000	.0220	.0220	.2780	-.0530	-.0450	-.0450	-.0450

DATE 24 SEP 73

TABLATED PEASURE DATA - 1A99

AMES 97-707 IAB OEA + S3 + T9 ORBITER FUSELAGE

(RBOB2R)

MACH (1) = 1.555

BETAT (6) = 6.565

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI .0380

165.000 .0380

180.000 -.1160 -.0290 .1570

MACH (1) = 1.555

BETAT (7) = 8.130

SECTION (1) ORBITER FUSELAGE

DEPENDENT VARIABLE CP

X/LB .0220 .0075 .0188 .0339 .0672 .1355 .1596 .1581 .1732 .1958 .2259 .2711 .3270 .3953 .5120

PHI .0000

1.2750 1.3520 .5390 -.1040 -.1100 -.0060

20.000 .4530 -.1500 -.1730 -.0790

40.000 .3760 -.1510 -.1850 -.0360

55.000 .2980 -.1430 -.2030 -.0460

70.000 .1970 -.1930 -.2220 .0590

90.000 .6820 .1130 -.2450 -.2050 .0870

120.000 .0530 -.2180 -.1440 .2120

142.000 .0690 -.1670 -.0520 .3070

150.000 .5630

157.000

162.000

165.000

169.000

172.000

180.000 1.2750 .6610 .0920 -.0780 .0530 .4120

X/LB .5873 .6626 .7380 .7869 .8283 .8848 .9262 .9639 1.0015 1.0392

PHI .0000

1060 .1060

1650 .1650

70.000 -.0920 -.1420 -.1880 -.1520 -.1870 -.1910

90.000 -.0480 -.0920 -.0360 -.1170 -.1540 -.2090 -.2030

119.000 .119 .0340 -.0630 -.1560 -.2230 -.2140

119.000 .119 .0340 -.0630 -.1560 -.2230 -.2140

120.000 .120 .0350 .2090 -.0400 -.2110 -.2070 -.1820

120.000 .120 .0350 .2090 -.0400 -.2110 -.2070 -.1820

135.000 .135 .0400 .4770 .2910 -.1790 .1630 -.1230

150.000 .150 .0450 .2230 .1730 -.1660 .0840 -.1440

165.000 .165 .0500 .2620 .3450 -.0020 -.0480 -.2240

180.000 .180 .0550 .1420

-.0200

-.1330

-.1160

-.1080

-.1910

-.2030

-.2140

-.1820

-.1230

-.1440

-.0480

-.2240

-.1420

-.0920

-.1420

-.1880

-.1520

-.1870

-.2090

-.2030

-.2140

-.1820

-.1230

-.1440

-.0480

-.2240

-.1420

-.0590

-.1260

-.2070

-.1990

-.0810

-.1320

-.0650

-.0820

-.3430

-.1270

-.0260

-.2540

-.0260

-.3500

-.3760

-.3320

-.0070

-.2120

-.0570

-.2240

-.0790

-.4310

-.3670

-.2970

-.2240

-.0790

-.4110

-.3330

-.4150

-.3810

-.2080

-.0590

-.1260

-.2070

-.1990

-.0810

-.1320

-.0650

-.0820

-.3430

-.1270

-.0260

-.2540

-.0260

-.3500

-.0590

-.1260

-.2070

-.1990

-.0810

-.1320

-.0650

-.0820

-.3430

-.1270

-.0260

-.2540

-.0260

-.3500

-.0590

-.1260

-.2070

-.1990

-.0810

-.1320

-.0650

-.0820

-.3430

-.1270

-.0260

-.2540

-.0260

-.3500

-.0590

-.1260

-.2070

-.1990

-.0810

-.1320

-.0650

-.0820

-.3430

-.1270

-.0260

-.2540

-.0260

-.3500

-.0590

-.1260

-.2070

-.1990

-.0810

-.1320

-.0650

-.0820

-.3430

-.1270

-.0260

-.2540

-.0260

-.3500

AMES 97-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RDX028)

MACH (2) = 2.000 BETAT (1) = -8.325

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5000	.6075	.6188	.6339	.6672	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3240	.3953	.5120
FMI	.0000	1.2840	1.1660	.6690	.0910	-.0190	.0720		.0160	-.0490	-.0270	-.0590	-.0440	-.0270	
20.0000				.7590	.2690	.1230	.0140		-.0230	-.0680		-.0650	-.0900	.1280	
40.0000				.8270	.3710	.4040	.0830		-.0150	-.0640		-.0650	-.0900	.1280	
55.0000				.8110	.4120	.4770	.2530		.1590	-.0770		-.0770	-.0900	.1280	
70.0000				.7650	.3870	.3890	.2890		.2880	.1310	-.0130	-.0860	-.0350	.0460	
90.0000				.6520	.2190	.3660	.2700		.2030	.0940	-.0490	-.0650	-.0650	-.0790	
120.0000				.4780	.1300	.1970	.2390		.4900	.0600	-.0690	-.0260	-.0500	-.0910	
142.0000				.3660	.0540	.1220	.2570		.6190	-.0180	-.0100	.0000	-.0220	-.0220	
157.0000							.7450		.5880						
162.0000									.4270						
169.0000							.6600		.5840						
172.0000															
180.0000															

MACH (2) = 2.000 BETAT (2) = -6.260

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.5000	.6075	.6188	.6339	.6672	.1355	.1506	.1581	.1732	.1958	.2259	.2711	.3240	.3953	.5120
FMI	.0000	1.2660	1.1650	.7020	.1200	-.0370	.1700		.0640	-.0140	-.0390	-.0760	-.0630	-.0460	
20.0000				.7500	.2600	.0900	.0730		.0410	-.0300		-.0300	-.0300	.0880	
40.0000				.7850	.3640	.3590	.0850		-.0230	-.0530		-.0530	-.0530	.0880	
55.0000				.7710	.3820	.4320	.2170		.1300	-.0500		-.0500	-.0500	.0880	
70.0000				.7130	.2980	.3400	.2740		.1580	.1090	-.0480	-.0480	-.0480	.0880	
90.0000				.6060	.1930	.3050	.2900		.1820	.1660	-.0740	-.0740	-.0740	.0880	
120.0000				.4700	.1200	.1710	.2830		.4740	.0440	-.0560	-.0560	-.0560	.0880	

(RBC028)

AVES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE

MACH (2) = 2.000 BETAT (2) = -6.260

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.3506	.5881	.732	.958	.2259	.2711	.3200	.3953	.5120
PHI										.0900					
142.000									.6140						
150.000		.3810	.0620	.1170	.3900		.7440								
157.000									.5800						
162.000															
165.000															
169.000									.4410						
172.000							.7340								
180.000	1.2660	.7490	.2350	.1440	.0620	.4190			.6160						
X/LB	.5873	.6626	.7380	.7869	.8283	.8848	.9262	.9639	1.0015	1.0392					

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.3506	.5881	.732	.958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000															
150.000		.0740	.0990	.2990	.2310	.1780	-.0480	-.0630							
157.000															
162.000															
165.000															
169.000															
172.000															
180.000	-.0280	-.1290	-.1380	.5380	.2280	.0120	-.0450	-.0720	-.0180						
185.000															
190.000															
195.000															
199.000															

MACH (2) = 2.000 BETAT (3) = -4.210

SECTION (1) ORBITER FUSELAGE DEPENDENT VARIABLE CP

X/LB	.0000	.0075	.0188	.0339	.0602	.1355	.3506	.5881	.732	.958	.2259	.2711	.3200	.3953	.5120
PHI															
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000	1.2890	1.0660	.7140	.1540	-.0280	.1860									
185.000															
190.000															
195.000															
199.000															
PHI															
142.000															
150.000															
157.000															
162.000															
165.000															
169.000															
172.000															
180.000	.4250	.0830	.1250	.2080											
185.000															
190.000															
195.000															
199.000															

.6610

REFERENCE DATA

SREF = 2.4210 90.FT. XMRP = 26.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .0000 ORBINC = .5000
 RUDDER = .0000 ELEVON = .0000
 RUDFLR = .0000

DEPENDENT VARIABLE CP

SECTION (1)	ORBITER BASE	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
MACH (1) = 1.555	ALPHAT(1) = -0.400	A	.000	-.2350	-.2420	-.2320	-.2250	.0000	-.2300	-.2270	-.2510	-.2300
MACH (1) = 1.555	ALPHAT(2) = -6.330	A	.000	-.2350	-.2430	-.2330	-.2270	.0000	-.2330	-.2220	-.2510	-.2490
MACH (1) = 1.555	ALPHAT(3) = -4.250	A	.000	-.2320	-.2380	-.2300	-.2240	.0000	-.2280	-.2140	-.2450	-.2460
MACH (1) = 1.555	ALPHAT(4) = -2.190	A	.000	-.2330	-.2400	-.2320	-.2290	.0000	-.2330	-.2160	-.2360	-.2480
MACH (1) = 1.555	ALPHAT(5) = -.120	A	.000	-.2370	-.2420	-.2380	-.2340	.0000	-.2380	-.2230	-.2350	-.2500
MACH (1) = 1.555	ALPHAT(6) = 1.950	A	.000	-.2310	-.2360	-.2340	-.2310	.0000	-.2340	-.2180	-.2280	-.2490
MACH (1) = 1.555	ALPHAT(7) = 4.010	A	.000	-.2310	-.2340	-.2300	-.2280	.0000	-.2290	-.2140	-.2160	-.2370
MACH (1) = 1.555	ALPHAT(8) = 6.060	A	.000	-.2330	-.2360	-.2340	-.2320	.0000	-.2330	-.2190	-.2180	-.2410
MACH (1) = 1.555	ALPHAT(9) = 8.130	A	.000	-.2320	-.2360	-.2320	-.2320	.0000	-.2320	-.2160	-.2230	-.2380
MACH (2) = 2.000	ALPHAT(1) = -0.360	A	.000	-.1570	-.1620	-.1580	-.1510	.0000	-.1560	-.1620	-.1940	-.1690

AMES 97-707 IAS OSA + S3 + T9 ORBITER BASE

(RBOC:11)

SECTION (1) ORBITER BASE DEPENDENT VARIABLE Cp

MACH (2) = 2.000	ALPHAT(2) = -6.310	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1630	-.1660	-.1653	-.1590	.0000	-.1610	-.1640	-.1940	-.1760
MACH (2) = 2.000	ALPHAT(3) = -4.250	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1650	-.1710	-.1680	-.1650	.0000	-.1650	-.1650	-.1950	-.1790
MACH (2) = 2.000	ALPHAT(4) = -2.210	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1720	-.1760	-.1750	-.1730	.0000	-.1740	-.1740	-.2140	-.1870
MACH (2) = 2.000	ALPHAT(5) = -.160	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1750	-.1790	-.1790	-.1800	.0000	-.1770	-.1760	-.2190	-.1920
MACH (2) = 2.000	ALPHAT(6) = 1.890	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1770	-.1790	-.1800	-.1810	.0000	-.1820	-.1780	-.2180	-.1930
MACH (2) = 2.000	ALPHAT(7) = 3.930	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1780	-.1830	-.1840	-.1840	.0000	-.1820	-.1830	-.2140	-.1960
MACH (2) = 2.000	ALPHAT(8) = 5.980	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1780	-.1820	-.1840	-.1830	.0000	-.1840	-.1870	-.2110	-.1950
MACH (2) = 2.000	ALPHAT(9) = 8.020	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1820	-.1870	-.1880	-.1870	.0000	-.1890	-.1920	-.2190	-.2000

REFERENCE DATA

SREF = 2.4210 50.FT. XMRP = 28.5300 INCHES
 LREF = 39.9490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
 RUDRER = .000 ELEVON = .000
 RUOFLR = .000

DEPENDENT VARIABLE CP

SECTION (1)	ORBITER BASE	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
MACH (1) = 1.555	BETAT (1) = -7.140	A	.000	-.2640	-.2660	-.2610	-.2610	.0000	-.2590	-.2700	-.3080	-.2820
MACH (1) = 1.555	BETAT (2) = -5.100	A	.000	-.2500	-.2550	-.2470	-.2470	.0000	-.2480	-.2480	-.2810	-.2680
MACH (1) = 1.555	BETAT (3) = -3.050	A	.000	-.2430	-.2480	-.2390	-.2430	.0000	-.2450	-.2300	-.2540	-.2530
MACH (1) = 1.555	BETAT (4) = 5.110	A	.000	-.2510	-.2550	-.2490	-.2490	.0000	-.2520	-.2390	-.2580	-.2620
MACH (1) = 1.555	BETAT (5) = 7.140	A	.000	-.2620	-.2650	-.2630	-.2610	.0000	-.2630	-.2430	-.2630	-.2690
MACH (1) = 1.555	BETAT (6) = 9.190	A	.000	-.2680	-.2680	-.2680	-.2680	.0000	-.2670	-.2390	-.2610	-.2750
MACH (2) = 2.000	BETAT (1) = -8.320	A	.000	-.1780	-.1820	-.1810	-.1810	.0000	-.1770	-.1640	-.2090	-.1950
MACH (2) = 2.000	BETAT (2) = -6.270	A	.000	-.1810	-.1850	-.1890	-.1850	.0000	-.1820	-.1760	-.2250	-.1970
MACH (2) = 2.000	BETAT (3) = 1.210	A	.000	-.1860	-.1890	-.1920	-.1920	.0000	-.1850	-.1930	-.2280	-.2050
MACH (2) = 2.000	BETAT (4) = 3.990	A	.000	-.1920	-.1960	-.1980	-.1970	.0000	-.1960	-.2000	-.2180	-.2070

AMES 97-787 1A9 O2A + S3 + T9 ORBITER BASE (RBOC02)

SECTION (1) ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (5) = 6.060	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A									
			.000	-.1660	-.1910	-.1930	-.1950	.0000	-.1890	-.1920	-.1960
MACH (2) = 2.000	BETAT (6) = 6.120	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A									
			.000	-.1920	-.1960	-.1940	.0000	-.1960	-.1950	-.2230	-.2020

AMES 97-707 1A9 ORA + S3 + T9 ORBITER BASE

REFERENCE DATA

SREF = 1.4210 50.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUOFLR = .000

DEPENDENT VARIABLE CP

SECTION (1) ORBITER BASE	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
MACH (1) = 1.555 BETAT (1) = -7.120	A	.000	-.2570	-.5520	-.2560	-.2570	.0000	-.2520	-.2650	-.3090
MACH (1) = 1.555 BETAT (2) = -5.070	A	.000	-.2460	-.2490	-.2440	-.2460	.0000	-.2410	-.2470	-.2650
MACH (1) = 1.555 BETAT (3) = -3.050	A	.000	-.2420	-.2470	-.2380	-.2390	.0000	-.2410	-.2300	-.2540
MACH (1) = 1.555 BETAT (4) = 5.080	A	.000	-.2470	-.2490	-.2490	-.2450	.0000	-.2530	-.2260	-.2490
MACH (1) = 1.555 BETAT (5) = 7.110	A	.000	-.2560	-.2590	-.2580	-.2570	.0000	-.2560	-.2330	-.2620
MACH (1) = 1.555 BETAT (6) = 9.140	A	.000	-.2600	-.2620	-.2650	-.2590	.0000	-.2600	-.2330	-.2530
MACH (2) = 2.000 BETAT (1) = -6.300	A	.000	-.1800	-.1830	-.1860	-.1830	.0000	-.1790	-.1760	-.2290
MACH (2) = 2.000 BETAT (2) = -6.290	A	.000	-.1820	-.1870	-.1860	-.1870	.0000	-.1830	-.1820	-.2410
MACH (2) = 2.000 BETAT (3) = -4.200	A	.000	-.1640	-.1680	-.1680	-.1680	.0000	-.1630	-.1910	-.2270
MACH (2) = 2.000 BETAT (4) = 3.970	A	.000	-.1930	-.1950	-.1980	-.1930	.0000	-.1920	-.1990	-.2150

AMES 97-707 1A9 O2A + S3 + T9 ORBITER BASE (RB0003)

SECTION (3) ORBITER BASE

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (5) = 6.000	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1680	-.1930	-.1910	.0000	-.1970	-.1990	-.2160	-.1990
MACH (2) = 2.000	BETAT (6) = 8.000	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1920	-.1980	-.1990	.0000	-.1940	-.1910	-.2190	-.2030

AMES 97-707 IAS O2A + S3 + T9 ORBITER BASE

(R80C04) (24 MAY 75)

REFERENCE DATA

SREF = 2.4210 SQ.FT. YMRP = 26.5300 INCHES
 LREF = 39.6490 INCHES YMRP = .0000 INCHES
 BRFP = 39.6490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBITNC = .500
 RUDDER = .000 ELEVON = .000
 RUOFLR = .000

SECTION (1) ORBITER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -7.090	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.2510	-.2550	-.2510	-.2520	.0000	-.2480	-.2610	-.2620
MACH (1) = 1.555	BETAT (2) = -5.070	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.2450	-.2480	-.2410	-.2440	.0000	-.2430	-.2489	-.2680
MACH (1) = 1.555	BETAT (3) = -3.040	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.2410	-.2420	-.2360	-.2380	.0000	-.2360	-.2340	-.2560
MACH (1) = 1.555	BETAT (4) = 5.060	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.2430	-.2470	-.2470	-.2430	.0000	-.2470	-.2230	-.2520
MACH (1) = 1.555	BETAT (5) = 7.080	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.2520	-.2540	-.2540	-.2510	.0000	-.2530	-.2240	-.2610
MACH (1) = 1.555	BETAT (6) = 9.100	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.2570	-.2600	-.2590	-.2560	.0000	-.2590	-.2260	-.2640
MACH (2) = 2.000	BETAT (1) = -6.270	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1760	-.1800	-.1800	-.1780	.0000	-.1750	-.1840	-.1920
MACH (2) = 2.000	BETAT (2) = -6.240	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1830	-.1860	-.1880	-.1870	.0000	-.1830	-.1880	-.2090
MACH (2) = 2.000	BETAT (3) = -4.200	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1840	-.1870	-.1870	-.1860	.0000	-.1820	-.1910	-.2140
MACH (2) = 2.000	BETAT (4) = 3.950	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1870	-.1890	-.1920	-.1930	.0000	-.1880	-.1950	-.2140

AMES 97-707 1A2 O2A + S3 + T9 ORBITER BASE (RECORD)

SECTION (1) ORBITER BASE DEPENDENT VARIABLE CP

WMO#	(2)	BETAT (5) = 5.990	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
			A	.000	-.1630	-.1678	-.1690	-.1670	.0000	-.1650	-.1610	-.1540	
			A	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
			A	.000	-.1900	-.1970	-.1950	-.1920	.0000	-.1910	-.1860	-.2080	

AMES 97-707 1A9 O2A + S3 + T9 ORBITER BASE

(RBOCOS) (24 MAY 75)

REFERENCE DATA

SREF = 2.4210 59. FT. YMRP = 26.5300 INCHES
LREF = 59.6490 INCHES YMRP = .0000 INCHES
BREF = 59.6490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1) ORBITER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -7.100	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2480	-.2520	-.2470	-.2470	.0000	-.2440	-.2560	-.3000	-.2750
MACH (1) = 1.555	BETAT (2) = -5.070	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2440	-.2470	-.2400	-.2400	.0000	-.2410	-.2520	-.2780	-.2690
MACH (1) = 1.555	BETAT (3) = -3.050	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2400	-.2430	-.2340	-.2350	.0000	-.2320	-.2340	-.2670	-.2510
MACH (1) = 1.555	BETAT (4) = 5.050	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2410	-.2470	-.2460	-.2410	.0000	-.2430	-.2260	-.2520	-.2490
MACH (1) = 1.555	BETAT (5) = 7.070	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2450	-.2490	-.2490	-.2450	.0000	-.2450	-.2170	-.2510	-.2550
MACH (1) = 1.555	BETAT (6) = 9.090	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2570	-.2600	-.2600	-.2570	.0000	-.2580	-.2160	-.2560	-.2640
MACH (2) = 2.150	BETAT (1) = -8.280	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1720	-.1760	-.1780	-.1750	.0000	-.1710	-.1830	-.2340	-.1960
MACH (2) = 2.000	BETAT (2) = -6.250	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1740	-.1770	-.1780	-.1750	.0000	-.1750	-.1830	-.2340	-.1950
MACH (2) = 2.000	BETAT (3) = -4.140	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1790	-.1840	-.1850	-.1830	.0000	-.1770	-.1920	-.2280	-.1980
MACH (2) = 2.000	BETAT (4) = 3.940	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1890	-.1890	-.1920	-.1890	.0000	-.1860	-.1930	-.2120	-.2010

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TABULATED PRESSURE DATA - IASB

(RBOCUS)

ANE 97-707 IAS O2A + S3 + T9 ORBITER BASE

SECTION (1) ORBITER BASE	DEPENDENT VARIABLE CP									
MACH (2) = 2.000 BETAT (5) = 5.980	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
	A	.000	-.1790	-.1820	-.1850	-.1820	.0000	-.1800	-.1740	-.2010
MACH (2) = 2.000 BETAT (6) = 6.020	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
	A	.000	-.1810	-.1860	-.1860	-.1830	.0000	-.1845	-.1790	-.1930

AVES 97-707 IAS OZA + S3 + T9 ORBITER BASE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .0000 ORBINC = .500
 RUDDER = .0000 ELEVON = .0000
 RUOFLR = .0000

DEPENDENT VARIABLE CP

SECTION (1)	ORBITER BASE	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
MACH (1) = 1.555	BETAT (1) = -7.100	A	.0000	-.2390	-.2430	-.2410	-.2380	.0000	-.2310	-.2490	-.2620
MACH (1) = 1.555	BETAT (2) = -5.060	A	.0000	-.2390	-.2430	-.2390	-.2340	.0000	-.2360	-.2440	-.2630
MACH (1) = 1.555	BETAT (3) = -3.060	A	.0000	-.2400	-.2450	-.2360	-.2350	.0000	-.2310	-.2340	-.2520
MACH (1) = 1.555	BETAT (4) = 5.050	A	.0000	-.2370	-.2440	-.2430	-.2360	.0000	-.2390	-.2240	-.2480
MACH (1) = 1.555	BETAT (5) = 7.060	A	.0000	-.2400	-.2440	-.2460	-.2400	.0000	-.2400	-.2120	-.2470
MACH (1) = 1.555	BETAT (6) = 9.060	A	.0000	-.2480	-.2510	-.2510	-.2480	.0000	-.2470	-.2050	-.2560
MACH (2) = 2.000	BETAT (1) = -6.290	A	.0000	-.1710	-.1740	-.1710	-.1700	.0000	-.1670	-.1840	-.1870
MACH (2) = 2.000	BETAT (2) = -6.290	A	.0000	-.1730	-.1770	-.1770	-.1760	.0000	-.1730	-.1860	-.1930
MACH (2) = 2.000	BETAT (3) = -1.130	A	.0000	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000
MACH (2) = 2.000	BETAT (4) = 3.990	A	.0000	-.1760	-.1810	-.1800	-.1790	.0000	-.1760	-.1810	-.1990
MACH (2) = 2.000	BETAT (4) = 3.990	A	.0000	-.1780	-.1820	-.1850	-.1830	.0000	-.1800	-.1860	-.2050

ANES 97-707 IAS OSA + S3 + T9 ORBITER BASE (R80C06)

SECTION (1) ORBITER BASE

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (5) = 5.960	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1750	-.1600	-.1810	-.1600	.0000	.1770	-.1710	-.1970	-.1860

AMES 97-707 IAS OEA + S3 + T9 ORBITER BASE

(RBOC07) (24 MAY 73)

REFERENCE DATA

XREF = 2.4210 96.FT. XMRP = 26.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) ORBITER BASE

DEPENDENT VARIABLE CP

MACH	BETAT (1)	BETAT (2)	BETAT (3)	BETAT (4)	BETAT (5)	BETAT (6)	TAP NO	CP	TAP NO	CP	TAP NO	CP	TAP NO	CP	TAP NO	CP
MACH (1) = 1.555	BETAT (1) = -7.110						A	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
								.000	-.2360	-.2420	-.2390	-.2350	.0000	-.2290	-.2420	-.2420
MACH (1) = 1.555	BETAT (2) = -5.090						A	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
								.000	-.2330	-.2410	-.2340	-.2270	.0000	-.2320	-.2420	-.2420
MACH (1) = 1.555	BETAT (3) = -3.070						A	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
								.000	-.2360	-.2410	-.2330	-.2270	.0000	-.2310	-.2290	-.2140
MACH (1) = 1.555	BETAT (4) = 5.040						A	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
								.000	-.2290	-.2360	-.2330	-.2250	.0000	-.2300	-.2140	-.2360
MACH (1) = 1.555	BETAT (5) = 7.060						A	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
								.000	-.2320	-.2380	-.2370	-.2300	.0000	-.2350	-.2070	-.2400
MACH (1) = 1.555	BETAT (6) = 9.060						A	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
								.000	-.2730	-.2380	-.2380	-.2310	.0000	-.2350	-.1950	-.2430
MACH (2) = 2.000	BETAT (1) = -8.310						A	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
								.000	-.1660	-.1690	-.1680	-.1660	.0000	-.1610	-.1840	-.2300
MACH (2) = 2.000	BETAT (2) = -6.260						A	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
								.000	-.1750	-.1780	-.1790	-.1770	.0000	-.1710	-.1940	-.2350
MACH (2) = 2.000	BETAT (3) = -4.230						A	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
								.000	-.1770	-.1800	-.1800	-.1790	.0000	-.1750	-.1940	-.2280
MACH (2) = 2.000	BETAT (4) = 3.940						A	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
								.000	-.1760	-.1810	-.1820	-.1790	.0000	-.1770	-.1810	-.2020

TABULATED PRESSURE DATA - 1A98

(R80C07)

AMES 97-707 1A9 02A + S3 + T9 ORBITER BASE

DEPENDENT VARIABLE CP

SECTION (1) ORBITER BASE

MACH (2) = 2.000 BETAT (5) = 9.970

TAP NO 1.000 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000

A

.000 -.1720 -.1760 -.1760 -.1750 .0000 -.1730 -.1640 -.1910 -.1860

MACH (2) = 2.000 BETAT (6) = 9.010

TAP NO 1.000 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000

A

.000 -.1730 -.1770 -.1770 -.1740 .0000 -.1730 -.1560 -.1850 -.1670

REFERENCE DATA

SREP = 2.4210 98.FT. XMRP = 28.5300 INCHES
LREP = 39.8490 INCHES YMRP = .0000 INCHES
BREP = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

ALPHAT = -4.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

PARAMETRIC DATA

DEPENDENT VARIABLE CP

SECTION ()	ORBITER BASE	DEPENDENT VARIABLE CP										
MACH (1)	BETAT (1) = -8.130	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2310	-.2360	-.2280	-.2180	.0000	-.2230	-.2280	-.2940	-.2420
MACH (1)	BETAT (2) = -6.150	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2280	-.2310	-.2270	-.2170	.0000	-.2220	-.2270	-.2950	-.2410
MACH (1)	BETAT (3) = -5.070	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2300	-.2370	-.2290	-.2200	.0000	-.2250	-.2280	-.2730	-.2440
MACH (1)	BETAT (4) = 5.030	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2220	-.2300	-.2220	-.2160	.0000	-.2270	-.2030	-.2250	-.2340
MACH (1)	BETAT (5) = 7.090	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2250	-.2320	-.2240	-.2150	.0000	-.2360	-.2000	-.2230	-.360
MACH (1)	BETAT (6) = 9.070	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2280	-.2300	-.2280	-.2220	.0000	-.2310	-.1930	-.2330	-.2370
MACH (2)	BETAT (1) = -8.310	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1630	-.1680	-.1670	-.1650	.0000	-.1580	-.1820	-.2300	-.1870
MACH (2)	BETAT (2) = -6.270	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1080	-.1140	-.1130	-.1100	.0000	-.1170	-.1890	-.2340	-.1970
MACH (2)	BETAT (3) = -4.230	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1710	-.1760	-.1760	-.1740	.0000	-.1710	-.1920	-.2270	-.1960
MACH (2)	BETAT (4) = 3.920	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1720	-.1760	-.1780	-.1770	.0000	-.1730	-.1770	-.1950	-.1880

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TABULATED PRESSURE DATA - 1A9B

(RBOC08)

AMES 97-707 1A9 O2A + S3 + T9 ORBITER BASE

DEPENDENT VARIABLE CP

SECTION (1) ORBITER BASE

MACH (2) = 2.000	BETAT (5) = 5.960	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1760	-.1600	-.1610	-.1790	.0000	-.1760	-.1750	-.1970
MACH (2) = 2.000	BETAT (6) = 6.010	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1710	-.1760	-.1770	-.1790	.0000	-.1720	-.1600	-.1900

AXES 97-707 IAS O2A + S3 + 19 ORBITER BASE

REFERENCE DATA

REF = 2.4830 INCHES
 LREF = 39.9480 INCHES
 BREF = 39.8480 INCHES
 SCALZ = .0000 SCALE

XMRP = 28.9300 INCHES
 YMRP = .0000 INCHES
 ZMRP = .0000 INCHES

PARAMETRIC DATA

ALPHAT = -6.000
 RUDDER = .000
 RUOFLR = .000

ORBITNC = .500
 ELEVON = .000

DEPENDENT VARIABLE CP

SECTION (1)	ORBITER BASE	MACH (1)	BETAT (1)	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
MACH (1) = 1.555	BETAT (1) = -6.160	A	.000	-2200	-2290	-2190	-2090	.0000	-2110	-2210	-2290	-2290	.0000
MACH (1) = 1.555	BETAT (2) = -6.170	A	.000	-2190	-2270	-2190	-2080	.0000	-2160	-2210	-2080	-2290	.0000
MACH (1) = 1.555	BETAT (3) = -4.160	A	.000	-2230	-2320	-2120	.0000	-2280	-2260	-2730	-2360	.0000	.0000
MACH (1) = 1.555	BETAT (4) = 3.640	A	.000	-2190	-2270	-2220	-2090	.0000	-2220	-1920	-2070	-2340	.0000
MACH (1) = 1.555	BETAT (5) = 5.690	A	.000	-2150	-2230	-2160	-2070	.0000	-2240	-1940	-2150	-2290	.0000
MACH (1) = 1.555	BETAT (6) = 7.740	A	.000	-2190	-2270	-2130	-2180	.0000	-2320	-1970	-2160	-2250	.0000
MACH (2) = 2.000	BETAT (1) = -6.340	A	.000	-1550	-1610	-1550	-.430	.0000	-1490	-1750	-2190	-1660	.0000
MACH (2) = 2.000	BETAT (2) = -6.300	A	.000	-1630	-1680	-1660	-1650	.0000	-1620	-1830	-2280	-1930	.0000
MACH (2) = 2.000	BETAT (3) = -4.230	A	.000	-1640	-1690	-1670	.0000	-1610	-1830	-2230	-1920	.0000	.0000
MACH (2) = 2.000	BETAT (4) = 3.930	A	.000	-1660	-1730	-1710	.0000	-1660	-1740	-1740	-1840	.0000	.0000

ANES 97-707 1AS OBA + S3 + T9 ORBITER BASE (RBOC09)

SECTION (1) ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (5) = 8.020	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1620	-.1670	-.1640	-.1690	.0000	-.1630	-.1490	-.1780	-.1770

AMES 97-707 IAS OEA + S3 + T9 ORBITER BASE

(RBOC10) (24 MAY 73)

REFERENCE DATA

BRP = 2.4210 56-FT. YMRP = 26.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BRP = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.000 ORBINC = .900
 RUDDER = .000 ELEVON = .000
 RUOFLR = .000

SECTION / 1) ORBITER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -6.200	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2150	-.2220	-.2140	-.2010	.0000	-.2040	-.2210	-.2950	-.2250
MACH (1) = 1.555	BETAT (2) = -6.210	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2110	-.2200	-.2110	-.1980	.0000	-.2070	-.2170	-.2620	-.2150
MACH (1) = 1.555	BETAT (3) = -4.220	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2180	-.2260	-.2170	-.2010	.0000	-.2140	-.2250	-.2750	-.2260
MACH (1) = 1.555	BETAT (4) = 3.650	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2130	-.2200	-.2120	-.2030	.0000	-.2190	-.1680	-.2010	-.2240
MACH (1) = 1.555	BETAT (5) = 5.710	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2110	-.2210	-.2090	-.2010	.0000	-.2210	-.1920	-.2070	-.2210
MACH (1) = 1.555	BETAT (6) = 7.770	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2120	-.2190	-.2030	-.2010	.0000	-.2310	-.1910	-.2040	-.2170
MACH (2) = 2.000	BETAT (1) = -6.390	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1540	-.1580	-.1560	-.1530	.0000	-.1470	-.1770	-.2300	-.1900
MACH (2) = 2.000	BETAT (2) = -6.330	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1640	-.1680	-.1680	-.1670	.0000	-.1620	-.1830	-.2320	-.1990
MACH (2) = 2.000	BETAT (3) = -4.280	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1620	-.1680	-.1690	-.1630	.0000	-.1590	-.1860	-.2250	-.1970
MACH (2) = 2.000	BETAT (4) = -.170	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1570	-.1630	-.1590	-.1530	.0000	-.1570	-.1620	-.1900	-.1730

(R00C10)

AMES 97-707 1A9 OSA + S3 + T9 ORBITER BASE

DEPENDENT VARIABLE CP

SECTION (1) ORBITER BASE

MACH (2) = 2.000	BETA (5) = 3.940	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1640	-.1700	-.1690	-.1670	.0000	-.1640	-.1710	-.1820
MACH (2) = 2.000	BETA (6) = 5.980	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1670	-.1720	-.1690	-.1710	.0000	-.1690	-.1710	-.1820
MACH (2) = 2.000	BETA (7) = 8.050	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1570	-.1640	-.1590	-.1560	.0000	-.1610	-.1490	-.1710

REFERENCE DATA

WREF = 2.4210 SR.FT. XWRP = 20.5300 INCHES
 YWRP = 39.8490 INCHES YWRP = .0000 INCHES
 ZWRP = 39.8490 INCHES ZWRP = .0000 INCHES
 SCALE = .03000 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUOFLR = .000

DEPENDENT VARIABLE CP

SECTION (1) ORBITER BASE	MACH (1) = 1.555	BETAT (1) = -6.420	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
			A	.000	-.2200	-.2310	-.2220	-.2150	.0000	-.2090	-.2320	-.2370
			TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
			A	.000	-.2170	-.2270	-.2200	-.2090	.0000	-.2130	-.2250	-.2250
			TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
			A	.000	-.2240	-.2340	-.2240	-.2090	.0000	-.2220	-.2330	-.2350
			TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
			A	.000	-.2460	-.2540	-.2460	-.2340	.0000	-.2400	-.2390	-.2640
			TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
			A	.000	-.2180	-.2270	-.2180	-.2060	.0000	-.2260	-.2010	-.2120
			TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
			A	.000	-.2200	-.2300	-.2160	-.2100	.0000	-.2300	-.2010	-.2210
			TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
			A	.000	-.2250	-.2300	-.2150	-.2100	.0000	-.2400	-.2010	-.2230
			TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
			A	.000	-.1580	-.1640	-.1620	-.1580	.0000	-.1520	-.1850	-.1950
			TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
			A	.000	-.1650	-.1710	-.1700	-.1640	.0000	-.1650	-.1870	-.2000
			TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
			A	.000	-.1660	-.1710	-.1710	-.1680	.0000	-.1620	-.1870	-.2130

MACH (2) = 2.000 BETAT (1) = -6.350
 MACH (2) = 2.000 BETAT (2) = -6.340
 MACH (2) = 2.000 BETAT (3) = -4.290

AMES 97-707 IAS QEA + S3 + T9 ORBITER BASE

(RBOC11)

DEPENDENT VARIABLE CP

SECTION (1) ORBITER BASE

MACH (2) = 2.000	BETAT (4) = -.160	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1590	-.1650	-.1610	-.1590	.0000	-.1570	-.1640	-.1710
MACH (2) = 2.000	BETAT (5) = 3.990	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1640	-.1690	-.1670	.0000	-.1640	-.1670	-.1620	-.1610
MACH (2) = 2.000	BETAT (6) = 5.990	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1700	-.1720	-.1720	.0000	-.1710	-.1720	-.1990	-.1640
MACH (2) = 2.000	BETAT (7) = 8.040	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1610	-.1660	-.1610	.0000	-.1640	-.1490	-.1740	-.1750

AMES 97-707 IAS OEA + S3 + T9 ORBITER BASE

(RROC12) (24 MAY 75)

REFERENCE DATA

SREF = 2.4210 56.FT. XMRP = 28.5900 INCHES
LREF = 39.8480 INCHES YMRP = .0000 INCHES
BREF = 39.8480 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

DEPENDENT VARIABLE CP

SECTION (1) ORBITER BASE	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
MACH (1) = 1.555 BETAT (1) = -6.350	A	.000	-.2340	-.2400	-.2560	-.2290	.0000	-.2270	-.2380	-.2960
MACH (1) = 1.555 BETAT (2) = -6.310	A	.000	-.2290	-.2360	-.2300	-.2210	.0000	-.2260	-.2300	-.2440
MACH (1) = 1.555 BETAT (3) = -4.280	A	.000	-.2330	-.2450	-.2330	-.2220	.0000	-.2350	-.2380	-.2490
MACH (1) = 1.555 BETAT (4) = -1.170	A	.000	-.2460	-.2520	-.2470	-.2380	.0000	-.2430	-.2390	-.2660
MACH (1) = 1.555 BETAT (5) = 3.930	A	.000	-.2280	-.2370	-.2320	-.2190	.0000	-.2310	-.2110	-.2270
MACH (1) = 1.555 BETAT (6) = 5.960	A	.000	-.2300	-.2390	-.2350	-.2250	.0000	-.2350	-.2390	-.2430
MACH (1) = 1.555 BETAT (7) = 6.020	A	.000	-.2340	-.2400	-.2340	-.2270	.0000	-.2430	-.2060	-.2410
MACH (2) = 2.000 BETAT (1) = -6.320	A	.000	-.1676	-.1720	-.1700	-.1670	.0000	-.1590	-.1690	-.2230
MACH (2) = 2.000 BETAT (2) = -6.280	A	.000	-.1760	-.1800	-.1790	-.1780	.0000	-.1720	-.1910	-.2270
MACH (2) = 2.000 BETAT (3) = -4.240	A	.000	-.1750	-.1780	-.1780	-.1770	.0000	-.1720	-.1900	-.2280

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

AMES 97-707 1A9 O2A + S3 + T9 ORBITER BASE

(RBOC12)

SECTION ()	ORBITER BASE	DEPENDENT VARIABLE CP									
MACH (2) = 2.000	BETAT (4) = -0.170	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
	A	.000	-.1740	-.1790	-.1770	-.1730	.0000	-.1740	-.1730	-.1990	-.1860
MACH (2) = 2.000	BETAT (5) = 3.920	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
	A	.000	-.1760	-.1810	-.1820	-.1800	.0000	-.1760	-.1780	-.1780	-.1910
MACH (2) = 2.000	BETAT (6) = 5.960	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
	A	.000	-.1750	-.1790	-.1780	-.1770	.0000	-.1750	-.1680	-.1930	-.1880
MACH (2) = 2.000	BETAT (7) = 8.010	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
	A	.000	-.1680	-.1740	-.1710	-.1720	.0000	-.1680	-.1520	-.1880	-.1830

REFERENCE DATA

SREF = 2.4210 96.FT. XMRP = 29.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUOFLR = .000

DEPENDENT VARIABLE CP

SECTION (1) ORBITER BASE	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
MACH (1) = 1.555 BETAT (1) = -6.310	A	.000	-.2490	-.2530	-.2490	-.2480	.0000	-.2420	-.2520	-.3190	-.2690
MACH (1) = 1.555 BETAT (2) = -6.280	A	.000	-.2460	-.2510	-.2470	-.2440	.0000	-.2390	-.2550	-.2940	-.2710
MACH (1) = 1.555 BETAT (3) = -4.240	A	.000	-.2430	-.2480	-.2400	-.2320	.0000	-.2400	-.2470	-.2930	-.2640
MACH (1) = 1.555 BETAT (4) = -.140	A	.000	-.2450	-.2510	-.2460	-.2400	.0000	-.2420	-.2380	-.2680	-.2620
MACH (1) = 1.555 BETAT (5) = 3.940	A	.000	-.2370	-.2420	-.2410	-.2330	.0000	-.2380	-.2220	-.2540	-.2460
MACH (1) = 1.555 BETAT (6) = 5.990	A	.000	-.2410	-.2460	-.2450	-.2410	.0000	-.2430	-.2200	-.2570	-.2540
MACH (1) = 1.555 BETAT (7) = 6.090	A	.000	-.2500	-.2540	-.2530	-.2460	.0000	-.2510	-.2160	-.2630	-.2600
MACH (2) = 2.000 BETAT (1) = -6.300	A	.000	-.1720	-.1760	-.1760	-.1740	.0000	-.1700	-.1820	-.2340	-.1910
MACH (2) = 2.000 BETAT (2) = -6.260	A	.000	-.1810	-.1850	-.1860	-.1840	.0000	-.1810	-.1980	-.2390	-.2020
MACH (2) = 2.000 BETAT (3) = -4.220	A	.000	-.1840	-.1870	-.1860	-.1870	.0000	-.1820	-.1970	-.2350	-.2030

DATE 21 SEP 70

TABULATED PRESSURE DATA - 1A98
AVES 97-707 1A9 C2A + S3 + T9 ORBITER BASE

(R80C13)

SECTION (1) ORBITER BASE	DEPENDENT VARIABLE CP									
MACH (2) = 2.000 BETAT (4) = -.140	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
	A	.000	-.1770	-.1800	-.1810	-.1800	.0000	-.1790	-.1770	-.1930
MACH (2) = 2.000 BETAT (5) = 3.930	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
	A	.000	-.1790	-.1940	-.1850	-.1830	.0000	-.1810	-.1830	-.2040
MACH (2) = 2.000 BETAT (6) = 5.960	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
	A	.000	-.1710	-.1770	-.1770	-.1750	.0000	-.1740	-.1640	-.1910
MACH (2) = 2.000 BETAT (7) = 8.020	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
	A	.000	-.1770	-.1820	-.1830	-.1790	.0000	-.1780	-.1620	-.1900

DATE 21 SEP 73
TABULATED PRESSURE DATA - 1A98
AVES 97-707 1A9 O2A + S3 + T9 ORBITER BASE

REFERENCE DATA
 SREF = 2.4210 96.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = 1000 SCALE

PARAMETRIC DATA
 ALPHAT = 4.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) ORBITER BASE	DEPENDENT VARIABLE CP										
MACH (1) = 1.555 BETAT (1) = -6.300	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
	A	.000	-.2620	-.2670	-.2630	-.2630	.0000	-.2600	-.2690	-.2910	
MACH (1) = 1.555 BETAT (2) = -6.260		TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
	A	.000	-.2620	-.2660	-.2650	-.2590	.0000	-.2600	-.2700	-.3200	-.2900
MACH (1) = 1.555 BETAT (3) = -4.220		TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
	A	.000	-.2530	-.2560	-.2500	-.2480	.0000	-.2510	-.2570	-.2880	-.2760
MACH (1) = 1.555 BETAT (4) = -.120		TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
	A	.000	-.2400	-.2440	-.2380	-.2360	.0000	-.2400	-.2260	-.2420	-.2510
MACH (1) = 1.555 BETAT (5) = 3.950		TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
	A	.000	-.2500	-.2540	-.2520	-.2470	.0000	-.2530	-.2350	-.2570	-.2610
MACH (1) = 1.555 BETAT (6) = 6.000		TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
	A	.000	-.2520	-.2550	-.2540	-.2500	.0000	-.2520	-.2210	-.2490	-.2610
MACH (1) = 1.555 BETAT (7) = 8.040		TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
	A	.000	-.2590	-.2610	-.2620	-.2590	.0000	-.2600	-.2250	-.2700	-.2650
MACH (2) = 2.000 BETAT (1) = -6.250		TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
	A	.000	-.1810	-.1830	-.1860	-.1890	.0000	-.1790	-.1690	-.2340	-.1950
MACH (2) = 2.000 BETAT (2) = -6.250		TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
	A	.000	-.1850	-.1890	-.1920	-.1890	.0000	-.1830	-.1930	-.2420	-.2080
MACH (2) = 2.000 BETAT (3) = -4.200		TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
	A	.000	-.1880	-.1930	-.1930	-.1930	.0000	-.1870	-.1930	-.2340	-.2090

DATE 21 SEP 73

TABLULATED PRESSURE DATA - 1A96

(RBOC14)

ANES 97-707 1A9 OEA + S3 + T9 ORBITER BASE

DEPENDENT VARIABLE CP

SECTION (1) ORBITER BASE

MACH (2) = 2.000	BETAT (4) = -.130	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1820	-.1850	-.1870	-.1870	.0000	-.1850	-.2120	-.1990
MACH (2) = 2.000	BETAT (5) = 3.990	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1890	-.1990	-.1990	-.1920	.0000	-.1910	-.2130	-.2030
MACH (2) = 2.000	BETAT (6) = 5.990	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1810	-.1850	-.1860	-.1890	.0000	-.1830	-.1750	-.2040
MACH (2) = 2.000	BETAT (7) = 8.040	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1930	-.1990	-.1990	-.1990	.0000	-.1940	-.1870	-.2040

TABULATED PRESSURE DATA - 1A98

(RBOC15) (24 MAY 73)

DATE 21 SEP 73

AMES 97-707 1A9 O&A + S3 + T9 ORBITER BASE

PARAMETRIC DATA

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0300 INCHES
 BREF = 39.8490 INCHES ZMRP = .0300 INCHES
 SCALE = .0300 SCALE

ALPHAT = 6.0000 ORBINC = .5000
 RUDDER = -15.0000 ELEVON = .0000
 RUDFLR = .0000

DEPENDENT VARIABLE CP

SECTION (1)	ORBITER BASE	TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000
MACH (1)	1.555 BETAT (1) = -8.320	A	.0000	-.2670	-.2640	-.2640	.0000	-.2640	-.2680	-.3220	-.2940
MACH (1)	1.555 BETAT (2) = -6.280	A	.0000	-.2630	-.2610	-.2620	.0000	-.2610	-.2720	-.3140	-.2920
MACH (1)	1.555 BETAT (3) = -4.230	A	.0000	-.2570	-.2530	-.2530	.0000	-.2540	-.2570	-.2790	-.2790
MACH (1)	1.555 BETAT (4) = -.120	A	.0000	-.2430	-.2420	-.2430	.0000	-.2440	-.2290	-.2490	-.2540
MACH (1)	1.555 BETAT (5) = 3.970	A	.0000	-.2460	-.2510	-.2490	.0000	-.2480	-.2310	-.2530	-.2590
MACH (1)	1.555 BETAT (6) = 6.030	A	.0000	-.2560	-.2580	-.2590	-.2530	.0000	-.2570	-.2220	-.2560
MACH (1)	1.555 BETAT (7) = 8.080	A	.0000	-.2650	-.2680	-.2690	-.2630	.0000	-.2660	-.2330	-.2680
MACH (2)	2.000 BETAT (1) = -6.260	A	.0000	-.1860	-.1890	-.1930	-.1910	.0000	-.1860	-.1890	-.2420
MACH (2)	2.000 BETAT (2) = -4.210	A	.0000	-.1890	-.1930	-.1930	-.1920	.0000	-.1890	-.1940	-.2350
MACH (2)	2.000 BETAT (3) = -.130	A	.0000	-.1820	-.1850	-.1880	-.1870	.0000	-.1860	-.1890	-.2130

TABLULATED PRESSURE DATA - 1A98

(RBOC15)

ANES 97-707 1A9 O2A + S3 + T9 ORBITER BASE

DEPENDENT VARIABLE CP

SECTION (1) ORBITER BASE

MACH (2) = 2.000 BETAT (4) = 3.9.0

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	.000	-.1670	-.1900	-.1920	-.1900	.0000	-.1910	-.1860	-.2090

MACH (2) = 2.000 BETAT (5) = 6.000

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	.000	-.1620	-.1850	-.1860	.0000	-.1830	-.1730	-.2150	-.1920

MACH (2) = 2.000 BETAT (6) = 8.000

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	.000	-.1680	-.1940	-.1930	-.1920	.0000	-.1910	-.1870	-.2190

AMES 97-757 1A9 O&A + S3 + T9 ORBITER BASE (RBOC16) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT XREF = 25.5300 INCHES
 LREF = 39.8490 INCHES YREF = .0000 INCHES
 BREF = 39.8490 INCHES ZREF = .0000 INCHES
 SCALE = .0000 SCALE

ALPHAT = 8.0000 ORBINC = .5000
 RUDDER = -15.0000 ELEVON = .0000
 RUDFLR = .0000

PARAMETRIC DATA

SECTION (1) ORBITER BASE		DEPENDENT VARIABLE CP									
MACH (1) = 1.555	BETAT (1) = -8.350	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	-.2670	-.2710	-.2670	-.2680	.0000	-.2660	-.2640	-.3140	-.2870
MACH (1) = 1.555	BETAT (2) = -6.290	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	-.2630	-.2660	-.2630	-.2590	.0000	-.2630	-.2680	-.3040	-.2810
MACH (1) = 1.555	BETAT (3) = -4.240	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	-.2560	-.2600	-.2530	-.2510	.0000	-.2570	-.2540	-.2800	-.2750
MACH (1) = 1.555	BETAT (4) = -.110	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	-.2410	-.2430	-.2400	-.2410	.0000	-.2440	-.2260	-.2410	-.2510
MACH (1) = 1.555	BETAT (5) = 4.000	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	-.2510	-.2540	-.2520	-.2470	.0000	-.2520	-.2380	-.2590	-.2620
MACH (1) = 1.555	BETAT (6) = 6.000	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	-.2640	-.2640	-.2630	-.2580	.0000	-.2620	-.2400	-.2610	-.2700
MACH (1) = 1.555	BETAT (7) = 8.120	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	-.2710	-.2730	-.2720	-.2700	.0000	-.2700	-.2450	-.2730	-.2780
MACH (2) = 2.000	BETAT (1) = -8.340	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	-.2360	-.2460	-.2460	-.2470	.0000	-.2450	-.2300	-.0000	.0000
MACH (2) = 2.000	BETAT (2) = -6.270	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	-.1880	-.1920	-.1930	-.1910	.0000	-.1870	-.1810	-.2300	-.2050
MACH (2) = 2.000	BETAT (3) = -4.220	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	-.1890	-.1920	-.1950	-.1930	.0000	-.1940	-.1950	-.2340	-.2100

AMES 97-707 IAS OEA + S3 + T9 ORBITER BASE

(RBOC16)

SECTION (1) ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) =	BETAT (4) =	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
2.000	-0.120	A	-0.1870	-0.1910	-0.1920	-0.1920	.0000	-0.1890	-0.1920	-0.2230	-0.2130
2.100	3.990	A	-0.1910	-0.1970	-0.1980	-0.1960	.0000	-0.1960	-0.1990	-0.2180	-0.2070
2.200	6.080	A	-0.1830	-0.1860	-0.1870	-0.1850	.0000	-0.1840	-0.1850	-0.2050	-0.1920
2.300	8.110	A	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000

AMES 97-707 1A9 O2A + S3 + T9 ORBITER BASE

(RBOC17) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.0000 ORBINC = .5000
RUDDER = -10.0000 ELEVEN = .0000
RUDFLR = .0000

DEPENDENT VARIABLE CP

SECTION (1) ORBITER BASE	MACH (1) = 1.555	BETAT (1) = -6.410	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
MACH (1) = 1.555	BETAT (2) = -6.360	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	9.000
MACH (1) = 1.555	BETAT (3) = -4.300	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	9.000
MACH (1) = 1.555	BETAT (4) = -1.180	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	9.000
MACH (1) = 1.555	BETAT (5) = 3.930	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	9.000
MACH (1) = 1.555	BETAT (6) = 5.990	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	9.000
MACH (1) = 1.555	BETAT (7) = 8.050	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	9.000
MACH (2) = 2.140	BETAT (1) = -8.380	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	9.000
MACH (2) = 2.140	BETAT (2) = -6.330	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	9.000
MACH (2) = 2.140	BETAT (3) = -4.280	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	9.000

AMES 97-707 IAS OEA + S3 + T9 ORBITER BASE (RBOC17)

SECTION (1) ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = -.170	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1590	-.1620	-.1590	-.1560	.0000	-.1550	-.1660	-.1700
MACH (2) = 2.000	BETAT (5) = 3.930	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1610	-.1680	-.1650	-.1630	.0000	-.1610	-.1620	-.1780
MACH (2) = 2.000	BETAT (6) = 5.980	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1640	-.1690	-.1650	-.1650	.0000	-.1650	-.1610	-.1760
MACH (2) = 2.000	BETAT (7) = 8.040	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1570	-.1630	-.1620	-.1590	.0000	-.1620	-.1470	-.1850

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.849J INCHES YMRP = .0000 INCHES
 BREF = 39.849J INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.0000 ORBINC = .5000
 RUDDER = -10.0000 ELEVON = .0000
 RUDFLR = .0000

SECTION (1) ORBITER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.340	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2290	-.2370	-.2270	-.2190	.0000	-.2180	-.2310	-.2990	-.2420
MACH (1) = 1.555	BETAT (2) = -6.300	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2270	-.2330	-.2280	-.2210	.0000	-.2210	-.2300	-.2940	-.2430
MACH (1) = 1.555	BETAT (3) = -4.250	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2290	-.2390	-.2280	-.2170	.0000	-.2290	-.2310	-.2790	-.2440
MACH (1) = 1.555	BETAT (4) = -.160	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2360	-.2410	-.2350	-.2280	.0000	-.2320	-.2180	-.2460	-.2510
MACH (1) = 1.555	BETAT (5) = 3.930	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2230	-.2330	-.2280	-.2130	.0000	-.2250	-.2120	-.2210	-.2370
MACH (1) = 1.555	BETAT (6) = 5.980	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2290	-.2330	-.2270	-.2170	.0000	-.2290	-.2120	-.2330	-.2380
MACH (1) = 1.555	BETAT (7) = 8.020	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2240	-.2300	-.2250	-.2160	.0000	-.2290	-.1940	-.2350	-.2350
MACH (2) = 2.000	BETAT (1) = -8.320	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1610	-.1640	-.1620	-.1620	.0000	-.1540	-.1790	-.2230	-.1830
MACH (2) = 2.000	BETAT (2) = -6.270	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1710	-.1750	-.1750	-.1730	.0000	-.1670	-.1880	-.2360	-.1990
MACH (2) = 2.000	BETAT (3) = -4.230	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1710	-.1750	-.1740	-.1730	.0000	-.1640	-.1870	-.2230	-.1950

(RBOC18)

AVES 97-707 1A9 OSA + S3 + T9 ORBITER BASE

DEPENDENT VARIABLE CP

SECTION (3) ORBITER BASE

MACH (2) = 2.000	BETAT (4) = -0.160	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
MACH (2) = 2.000 BETAT (4) = -0.160											
A .000 -0.1700 -0.1760 -0.1740 -0.1750 .0000 -0.1690 -0.1810 -0.2020 -0.1850											
MACH (2) = 2.000 BETAT (5) = 3.920											
A .000 -0.1750 -0.1790 -0.1800 -0.1780 .0000 -0.1780 -0.1700 -0.1950 -0.1900											
MACH (2) = 2.000 BETAT (6) = 5.960											
A .000 -0.1710 -0.1750 -0.1760 -0.1760 .0000 -0.1710 -0.1620 -0.1930 -0.1850											
MACH (2) = 2.000 BETAT (7) = 8.010											
A .000 -0.1660 -0.1700 -0.1710 -0.1690 .0000 -0.1680 -0.1440 -0.1830 -0.1810											

AMES 97-707 1A9 OCA + S3 + T9 ORBITER BASE (RBOC19) (24 MAY 73)

REFERRER DATA
 SREF = 2.4210 SQ. FT. XMRP = 28.5310 INCHES
 LREF = 39.8495 INCHES YMRP = 10.0000 INCHES
 BREF = 39.8495 INCHES ZMRP = 10.0000 INCHES
 SCALE = 1/3200 SCALE

SECTION (1) ORBITER BASE

MACH	BETAT	DEPENDENT VARIABLE CP	TAP NO	ALPHAT	ORBINC	ELEVON	RUDFLR
MACH (1) = 1.555	BETAT (1) = -8.320		TAP NO 1.000	5.000	7.000	8.000	9.000
			A .000	-2.430	-2.350	-2.280	-2.260
MACH (2) = 1.555	BETAT (2) = -6.270		TAP NO 1.000	5.000	7.000	8.000	9.000
			A .000	-2.350	-2.280	-2.210	-2.190
MACH (3) = 1.555	BETAT (3) = -4.240		TAP NO 1.000	5.000	7.000	8.000	9.000
			A .000	-2.240	-2.170	-2.100	-2.080
MACH (4) = 1.555	BETAT (4) = -1.140		TAP NO 1.000	5.000	7.000	8.000	9.000
			A .000	-2.140	-2.070	-2.000	-1.980
MACH (5) = 1.555	BETAT (5) = 3.950		TAP NO 1.000	5.000	7.000	8.000	9.000
			A .000	-2.050	-1.980	-1.910	-1.890
MACH (6) = 1.555	BETAT (6) = 5.990		TAP NO 1.000	5.000	7.000	8.000	9.000
			A .000	-1.950	-1.880	-1.810	-1.790
MACH (7) = 1.555	BETAT (7) = 8.040		TAP NO 1.000	5.000	7.000	8.000	9.000
			A .000	-1.850	-1.780	-1.710	-1.690
MACH (8) = 2.140	BETAT (1) = -8.310		TAP NO 1.000	5.000	7.000	8.000	9.000
			A .000	-1.750	-1.680	-1.610	-1.590
MACH (9) = 2.140	BETAT (2) = -6.260		TAP NO 1.000	5.000	7.000	8.000	9.000
			A .000	-1.650	-1.580	-1.510	-1.490
MACH (10) = 2.140	BETAT (3) = -4.220		TAP NO 1.000	5.000	7.000	8.000	9.000
			A .000	-1.550	-1.480	-1.410	-1.390

PARAMETRIC DATA

ALPHAT = .0200 ORBINC = .0000
 RUDDER = -10.0000 ELEVON = .0000
 RUDFLR = .0000

TABLATED PRESSURE DATA - 1A98

AMES 97-707 1A8 OEA + S5 + T8 ORBITER BASE (RB0C19)

SECTION (1) ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = -.140	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
MACH (2) = 2.000 BETAT (4) = -.140											
A											
TAP NO 1.000 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000											
.000 -.1770 -.1828 -.1828 -.1790 .0000 -.1770 -.1810 -.2020 -.1940											
MACH (2) = 2.000 BETAT (5) = 3.930											
A											
TAP NO 1.000 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000											
.000 -.1770 -.1810 -.1830 -.1800 .0000 -.1790 -.1790 -.2010 -.1890											
MACH (2) = 2.000 BETAT (6) = 5.980											
A											
TAP NO 1.000 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000											
.000 -.1740 -.1780 -.1810 -.1760 .0000 -.1740 -.1630 -.1930 -.1860											
MACH (2) = 2.000 BETAT (7) = 8.020											
A											
TAP NO 1.000 2.000 3.000 4.000 5.000 6.000 7.000 8.000 9.000											
.000 -.1790 -.1830 -.1840 -.1800 .0000 -.1800 -.1610 -.1930 -.1940											

REFERENCE DATA

SREF = 2.4210 SQ.FT. YMRP = 29.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .16000 INCHES
 BREF = 39.8490 INCHES ZMRP = .10000 INCHES
 SCALE = .0300 SCALE

SECTION (1) ORBITER BASE

MACH (1) = 1.555 BETAT (1) = -8.300

MACH (1) = 1.555 BETAT (2) = -6.270

MACH (1) = 1.555 BETAT (3) = -4.220

MACH (1) = 1.555 BETAT (4) = -1.130

MACH (1) = 1.555 BETAT (5) = 3.960

MACH (1) = 1.555 BETAT (6) = 6.000

MACH (1) = 1.555 BETAT (7) = 8.000

MACH (2) = 2.000 BETAT (1) = -8.280

MACH (2) = 2.000 BETAT (2) = -6.240

MACH (2) = 2.000 BETAT (3) = -4.200

PARAMETRIC DATA

ALPHAT = 4.000 ORBITNC = .0000
 RUDDER = -10.000 ELEVON = .0000
 RUDDLR = .0000

DEPENDENT VARIABLE CP

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	-.2540	-.2600	-.2520	-.2540	.0000	-.2520	-.2550	-.3020	-.2600
TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	-.2490	-.2520	-.2480	-.2480	.0000	-.2480	-.2540	-.2910	-.2770
TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	-.2500	-.2530	-.2450	-.2430	.0000	-.2470	-.2490	-.2860	-.2690
TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	-.2320	-.2350	-.2300	-.2310	.0000	-.2310	-.2140	-.2330	-.2410
TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	-.2420	-.2450	-.2450	-.2390	.0000	-.2430	-.2240	-.2480	-.2300
TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	-.2450	-.2480	-.2450	-.2430	.0000	-.2470	-.2130	-.2500	-.2510
TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	-.2580	-.2590	-.2610	-.2570	.0000	-.2580	-.2260	-.2700	-.2650
TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	-.1800	-.1850	-.1860	-.1830	.0000	-.1810	-.1890	-.2330	-.1950
TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	-.1820	-.1850	-.1870	-.1860	.0000	-.1810	-.1890	-.2380	-.2160
TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	-.1850	-.1890	-.1880	-.1880	.0000	-.1940	-.1910	-.2320	-.2170

AMES 97-707 1A9 O2A + S3 + T9 ORBITER BASE

(RBOC2U)

SECTION (1) ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = -0.130	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-0.1800	-0.1850	-0.1840	.0000	-0.1800	-0.1900	-0.2000	-0.1980
MACH (2) = 2.000	BETAT (5) = 3.950	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-0.1870	-0.1910	-0.1930	.0000	-0.1890	-0.1920	-0.2130	-0.2010
MACH (2) = 2.000	BETAT (6) = 5.990	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-0.1820	-0.1840	-0.1860	.0000	-0.1830	-0.1770	-0.2050	-0.1920
MACH (2) = 2.000	BETAT (7) = 8.040	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-0.1900	-0.1960	-0.1940	.0000	-0.1910	-0.1840	-0.2070	-0.2010

AMES 97-707 1A9 OEA + S3 + T9 ORBITER BASE

(RBCC21) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. YMRP = 28.5300 INCHES
 LRFP = 39.8490 INCHES YMRP = .0000 INCHES
 BRFP = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.0000 ORBINC = .0000
 RUDDER = -10.0000 ELEVON = .0000
 RUDFLR = .0000

SECTION (1) ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -6.330	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.2580	-.2640	-.2590	.0000	-.2570	-.2600	-.3100	-.2680
MACH (1) = 1.555	BETAT (2) = -6.290	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.2550	-.2600	-.2550	.0000	-.2540	-.2580	-.2960	-.2830
MACH (1) = 1.555	BETAT (3) = -4.230	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.2510	-.2540	-.2490	-.2480	.0000	-.2500	-.2470	-.2820
MACH (1) = 1.555	BETAT (4) = -.120	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.2350	-.2370	-.2320	-.2350	.0000	-.2350	-.2270	-.2350
MACH (1) = 1.555	BETAT (5) = 3.980	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.2440	-.2470	-.2460	-.2420	.0000	-.2450	-.2300	-.2540
MACH (1) = 1.555	BETAT (6) = 5.000	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.2500	-.2520	-.2530	-.2490	.0000	-.2520	-.2270	-.2580
MACH (1) = 1.555	BETAT (7) = 6.510	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.2620	-.2640	-.2650	-.2620	.0000	-.2610	-.2330	-.2680
MACH (2) = 2.000	BETAT (1) = -6.310	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1830	-.1870	-.1890	-.1870	.0000	-.1830	-.1830	-.2230
MACH (2) = 2.000	BETAT (2) = -6.260	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1880	-.1910	-.1930	-.1920	.0000	-.1870	-.1910	-.2400
MACH (2) = 2.000	BETAT (3) = -4.210	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1870	-.1910	-.1920	-.1920	.0000	-.1870	-.1920	-.2310

DATE 23 SEP 73

TABLATED PRESSURE DATA - 1A98
AMES 97-707 1A9 O2A - S3 + TS ORBITER BASE

(RBOC21)

DEPENDENT VARIABLE CP

SECTION (1) ORBITER BASE

MACH (2) = 2.000	BETAT (4) = -.120	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
MACH (2) = 2.000 BETAT (4) = -.120												
		A	.000	-.1800	-.1840	-.1880	-.1850	.0000	-.1820	-.1890	-.2090	-.1980
MACH (2) = 2.000 BETAT (5) = 3.970												
		A	.000	-.1890	-.1940	-.1960	-.1920	.0000	-.1930	-.1940	-.2150	-.2140
MACH (2) = 2.000 BETAT (6) = 6.020												
		A	.000	-.1860	-.1910	-.1930	-.1910	.0000	-.1890	-.1880	-.2130	-.1970
MACH (2) = 2.000 BETAT (7) = 8.070												
		A	.000	-.1920	-.1970	-.1980	-.1960	.0000	-.1990	-.1920	-.2140	-.2130

AMES 97-707 1A9 ORA + S3 + T9 ORBITER BASE

(RBOC22) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 59.77. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 8.0000 ORBINC = .0000
 RUDDER = -10.0000 ELEVON = .0000
 RUDFLR = .0000

SECTION (1)	ORBITER BASE	DEPENDENT VARIABLE	CP	TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000
MACH (1)	1.555	BETAT (1) = -8.360		A	.0000	-.2650	-.2700	-.2650	-.2660	.0000	-.2630	-.2620	-.3170
MACH (1)	1.555	BETAT (2) = -6.310		A	.0000	-.2590	-.2620	-.2570	-.2560	.0000	-.2570	-.2630	-.3050
MACH (1)	1.555	BETAT (3) = -4.230		A	.0000	-.2520	-.2570	-.2500	-.2490	.0000	-.2530	-.2490	-.2840
MACH (1)	1.555	BETAT (4) = -.110		A	.0000	-.2380	-.2410	-.2350	-.2350	.0000	-.2380	-.2220	-.2370
MACH (1)	1.555	BETAT (5) = 3.940		A	.0000	-.2480	-.2510	-.2510	-.2460	.0000	-.2490	-.2350	-.2620
MACH (1)	1.555	BETAT (6) = 6.060		A	.0000	-.2560	-.2590	-.2590	-.2560	.0000	-.2570	-.2370	-.2630
MACH (1)	1.555	BETAT (7) = 8.120		A	.0000	-.2680	-.2650	-.2700	-.2670	.0000	-.2680	-.2460	-.2750
MACH (2)	2.000	BETAT (1) = -8.330		A	.0000	-.1810	-.1850	-.1850	-.1840	.0000	-.1820	-.1700	-.2090
MACH (2)	2.000	BETAT (2) = -6.280		A	.0000	-.1870	-.1910	-.1930	-.1920	.0000	-.1870	-.1690	-.2260
MACH (2)	2.000	BETAT (3) = -4.220		A	.0000	-.1940	-.1930	-.1940	-.1940	.0000	-.1900	-.1930	-.2340

PARAMETRIC DATA

ALPHAT = -8.0000 CRBINC = .0000
RUDDER = 15.0000 ELEVON = .0000
RUDFLR = .0000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0000 SCALE

DEPENDENT VARIABLE CP

SECTION (1) ORBITER BASE	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
MACH (1) = 1.555 BETAT (1) = -8.400	A	.0000	-.2180	-.2270	-.2190	-.2030	.0000	-.2010	-.2310	-.2920
MACH (1) = 1.555 BETAT (2) = -6.380	A	.0000	-.2160	-.2250	-.2170	-.2040	.0000	-.2090	-.2230	-.2880
MACH (1) = 1.555 BETAT (3) = -4.290	A	.0000	-.2280	-.2360	-.2260	-.2120	.0000	-.2210	-.2360	-.2870
MACH (1) = 1.555 BETAT (4) = -1.170	A	.0000	-.2420	-.2520	-.2440	-.2350	.0000	-.2380	-.2490	-.2740
MACH (1) = 1.555 BETAT (5) = 3.940	A	.0000	-.2180	-.2270	-.2170	-.2080	.0000	-.2280	-.1940	-.2130
MACH (2) = 2.000 BETAT (5) = 8.160	A	.0000	-.2150	-.2240	-.2130	-.2080	.0000	-.2320	-.1940	-.2180
MACH (2) = 2.000 BETAT (1) = -8.380	A	.0000	-.1540	-.1590	-.1580	-.1550	.0000	-.1510	-.1830	-.2300
MACH (2) = 2.000 BETAT (2) = -6.330	A	.0000	-.1680	-.1710	-.1720	-.1680	.0000	-.1610	-.1920	-.2360
MACH (2) = 2.000 BETAT (3) = -4.280	A	.0000	-.1610	-.1670	-.1660	-.1610	.0000	-.1530	-.1810	-.2230
MACH (2) = 2.000 BETAT (4) = -1.170	A	.0000	-.1590	-.1650	-.1620	-.1590	.0000	-.1580	-.1700	-.1920

AMES 97-707 IAS 02A + S3 + T9 ORBITER BASE

(RBCC23)

DEPENDENT VARIABLE CP

SECTION (1) ORBITER BASE

MACH (2) = 2.000 BETAT (5) = 3.930

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	.000	-.1668	-.1710	-.1690	-.1670	-.1650	-.1710	-.1960	-.1830

MACH (2) = 2.000 BETAT (6) = 5.980

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	.000	-.1690	-.1740	-.1710	-.1710	-.1690	-.1670	-.1900	-.1830

MACH (2) = 2.000 BETAT (7) = 8.040

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	.000	-.1630	-.1690	-.1630	-.1640	-.1690	-.1540	-.1900	-.1780

AMES 97-707 1A9 02A + S3 + T9 ORBITER BASE

(RBOC24) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT.
 LREF = 39.8490 INCHES
 BREF = 39.8490 INCHES
 SCALE = .0314 SCALE

XMRP = 29.5300 INCHES
 YMRP = .0000 INCHES
 ZMRP = .0000 INCHES

ALPHAT = -4.0000 ORBINC = .0000
 RUDDER = 15.0000 ELEVON = .0000
 RUDFLR = .0000

PARAMETRIC DATA

SECTION (1) ORBITER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -6.330

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	.000	-.2330	-.2390	-.2310	-.2210	.0000	-.2220	-.2360	-.2450

MACH (1) = 1.555 BETAT (2) = -6.290

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	.000	-.2280	-.2340	-.2260	-.2200	.0000	-.2220	-.2280	-.2420

MACH (1) = 1.555 BETAT (3) = -4.240

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	.000	-.2330	-.2430	-.2310	-.2210	.0000	-.2340	-.2350	-.2460

MACH (1) = 1.555 BETAT (4) = -.150

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	.000	-.2450	-.2520	-.2480	-.2390	.0000	-.2430	-.2410	-.2620

MACH (1) = 1.555 BETAT (5) = 3.940

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	.000	-.2280	-.2370	-.2330	-.2210	.0000	-.2290	-.2090	-.2400

MACH (1) = 1.555 BETAT (6) = 5.980

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	.000	-.2270	-.2350	-.2310	-.2250	.0000	-.2300	-.2060	-.2400

MACH (1) = 1.555 BETAT (7) = 6.030

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	.000	-.2280	-.2330	-.2280	-.2190	.0000	-.2360	-.2010	-.2290

MACH (2) = 2.000 BETAT (1) = -6.310

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	.000	-.1620	-.1660	-.1650	-.1650	.0000	-.1550	-.1838	-.1860

MACH (2) = 2.000 BETAT (2) = -6.270

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	.000	-.1710	-.1750	-.1760	-.1730	.0000	-.1680	-.1910	-.2000

MACH (2) = 2.000 BETAT (3) = -4.230

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	.000	-.1740	-.1780	-.1780	-.1770	.0000	-.1690	-.1920	-.1990

TABLATED PRESSURE DATA - IASB

(RBOC24)

AMES 97-707 IAS CBA + S3 + T9 ORBITER BASE

SECTION (1) ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETA (4) = -.160	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1720	-.1770	-.1750	-.1750	.0000	-.1720	-.1830	-.1860
MACH (2) = 2.000	BETA (5) = 3.920	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1760	-.1820	-.1800	-.1790	.0000	-.1790	-.1780	-.1920
MACH (2) = 2.000	BETA (6) = 5.960	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1750	-.1800	-.1800	-.1790	.0000	-.1750	-.1760	-.1880
MACH (2) = 2.000	BETA (7) = 6.010	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1750	-.1740	-.1750	-.1750	.0000	-.1750	-.1520	-.1650

AGES 27-707 1A9 O2A + S2 + T9 ORBITER BASE (RBOC25) (24 MAY 73)

PERFORMANCE DATA

SREF = 2.4210 SQ.FT. XREF = 20.5300 INCHES
LREF = 39.6490 INCHES YREF = 0.0000 INCHES
BREF = 39.6490 INCHES ZREF = 0.0000 INCHES
SCALE = .0300 SCALE

ALPHAT = .0000 ORBINC = .0000
RUDDER = 15.0000 ELEVON = .0000
RUDFLR = .0000

PARAMETRIC DATA

SECTION (1) ORBITER BASE DEPENDENT VARIABLE CP

MACH	BETAT	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
MACH (1)	1.555	BETAT (1)	-8.320								
			.000	-.2510	-.2550	-.2510	-.2470	.0000	-.2400	-.2570	-.2710
MACH (1)	1.555	BETAT (2)	-6.270								
			.000	-.2380	-.2430	-.2380	-.2340	.0000	-.2320	-.2460	-.2640
MACH (1)	1.555	BETAT (3)	-4.240								
			.000	-.2410	-.2460	-.2360	-.2320	.0000	-.2350	-.2460	-.2620
MACH (1)	1.555	BETAT (4)	-1.130								
			.000	-.2410	-.2450	-.2420	-.2370	.0000	-.2390	-.2520	-.2550
MACH (1)	1.555	BETAT (5)	3.990								
			.000	-.2380	-.2460	-.2410	-.2360	.0000	-.2420	-.2270	-.2570
MACH (1)	1.555	BETAT (6)	5.990								
			.000	-.2420	-.2480	-.2460	-.2410	.0000	-.2440	-.2240	-.2650
MACH (1)	1.555	BETAT (7)	6.040								
			.000	-.2440	-.2460	-.2470	-.2420	.0000	-.2460	-.2130	-.2520
MACH (2)	2.000	BETAT (1)	-8.290								
			.000	-.1730	-.1770	-.1740	-.1740	.0000	-.1670	-.1810	-.1890
MACH (2)	2.000	BETAT (2)	-6.250								
			.000	-.1730	-.1770	-.1760	-.1760	.0000	-.1690	-.1890	-.1930
MACH (2)	2.000	BETAT (3)	-4.210								
			.000	-.1780	-.1820	-.1810	-.1810	.0000	-.1750	-.1910	-.1960

(RBOC25)

AMES 97-707 1A9 OSA + S3 + T9 ORBITER BASE

SECTION (1) ORBITER BASE

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = -0.140	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1760	-.1830	-.1820	-.1810	-.1780	-.1860	-.2060	-.1950
MACH (2) = 2.000	BETAT (5) = 3.990	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1620	-.1670	-.1690	-.1660	-.1640	-.1970	-.2110	-.1970
MACH (2) = 2.000	BETAT (6) = 6.020	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1770	-.1800	-.1820	-.1790	-.1780	-.1620	-.1910	-.1890

DATE: SEP 3

SIMULATED PRESSURE DATA - 1A98

AMES 07-707 1A9 02A + S3 + T9 ORBITER BASE

(RBOC26) (24 MAY 73)

PAGE 377

REFERENCE DATA

SREF = 2.4210 SQ.FT VREF = 28.5300 INCHES
 LREF = 39.8490 INCHES VREF = 0.0000 INCHES
 BREF = 39.8490 INCHES VREF = 0.0000 INCHES
 SCALE = 0.0000 SCALE

PARAMETRIC DATA

ALPHAT = 4.0000 ORBINC = 0.0000
 RUDDER = 15.0000 ELEVON = 0.0000
 RUDFLR = 0.0000

DEPENDENT VARIABLE CP

SECTION (1)	ORBITER BASE	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
MACH (1) = 1.555	BETAT (1) = -8.3000	A	-0.2560	-0.2620	-0.2550	-0.2570	0.0000	-0.2540	-0.2570	-0.3100	-0.2840
MACH (1) = 1.555	BETAT (2) = -6.2600	A	-0.2470	-0.2520	-0.2450	-0.2450	0.0000	-0.2440	-0.2530	-0.2910	-0.2760
MACH (1) = 1.555	BETAT (3) = -4.2200	A	-0.2470	-0.2500	-0.2420	-0.2400	0.0000	-0.2430	-0.2530	-0.2680	-0.2680
MACH (1) = 1.555	BETAT (4) = -0.1200	A	-0.2350	-0.2400	-0.2350	-0.2340	0.0000	-0.2330	-0.2230	-0.2420	-0.2440
MACH (1) = 1.555	BETAT (5) = 3.9600	A	-0.2500	-0.2560	-0.2530	-0.2490	0.0000	-0.2540	-0.2390	-0.2660	-0.2620
MACH (1) = 1.555	BETAT (6) = 6.0000	A	-0.2560	-0.2620	-0.2600	-0.2560	0.0000	-0.2590	-0.2370	-0.2640	-0.2660
MACH (1) = 1.555	BETAT (7) = 8.0000	A	-0.2550	-0.2580	-0.2580	-0.2540	0.0000	-0.2570	-0.2230	-0.2630	-0.2640
MACH (2) = 2.0000	BETAT (1) = -8.2800	A	-0.1780	-0.1820	-0.1820	-0.1810	0.0000	-0.1760	-0.1870	-0.2370	-0.1930
MACH (2) = 2.0000	BETAT (2) = -6.2300	A	-0.1810	-0.1850	-0.1860	-0.1850	0.0000	-0.1810	-0.1910	-0.2380	-0.2050
MACH (2) = 2.0000	BETAT (3) = -4.2000	A	-0.1830	-0.1870	-0.1870	-0.1870	0.0000	-0.1830	-0.1910	-0.2340	-0.2040

AMES 97-707 1A9 O2A + S3 + T9 ORBITER BASE

(RBOC26)

SECTION (1) ORBITER BASE

DEPENDENT VARIABLE CF

MACH (2) = 2.000	BETAT (4) = -0.120	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A									
			.000	-0.1010	-0.1060	-0.1060	.0000	-0.1010	-0.1020	-0.2120	-0.2010
MACH (2) = 2.000	BETAT (5) = 3.950	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A									
			.000	-0.1930	-0.1980	-0.1990	.0000	-0.1960	-0.2040	-0.2230	-0.2080
MACH (2) = 2.000	BETAT (6) = 3.990	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A									
			.000	-0.1880	-0.1930	-0.1920	.0000	-0.1890	-0.1860	-0.2160	-0.2000
MACH (2) = 2.000	BETAT (7) = 9.030	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A									
			.000	-0.1910	-0.1960	-0.1960	.0000	-0.1910	-0.1870	-0.2080	-0.2040

DATE 21 SEP 73 REGULATED PRESSURE DATA - 1A98

AMES 97-707 1A9 OGA + S3 + T9 ORBITER BASE

(RBOC27) (24 MAY 73)

PARAMETRIC DATA

ALPHAT = 6.1000 ORBINC = 1.0000
 RUDDER = 15.1000 ELEVON = 1.0000
 RUOFLR = 1.0000

REFERENCE DATA

SREF = 2.4210 SQ. INCHES
 LREF = 39.8490 INCHES
 BREF = 39.8490 INCHES
 SCALE = .103175 SCALE

DEPENDENT VARIABLE CP

SECTION (1)	ORBITER BASE	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
MACH (1) = 1.555	BETAT (1) = -8.330	A	-.2630	-.2690	-.2620	-.2620	-.2610	-.2670	-.2670	-.3160	-.2590
MACH (1) = 1.555	BETAT (2) = -6.270	A	-.2580	-.2610	-.2570	-.2570	-.2540	-.2650	-.3140	-.2850	-.2850
MACH (1) = 1.555	BETAT (3) = -4.230	A	-.2490	-.2520	-.2460	-.2450	-.2480	-.2520	-.2920	-.2730	-.2730
MACH (1) = 1.555	BETAT (4) = -1.110	A	-.2440	-.2440	-.2410	-.2410	-.2390	-.2370	-.2530	-.2520	-.2520
MACH (1) = 1.555	BETAT (5) = 3.990	A	-.2540	-.2580	-.2550	-.2510	-.256	-.256	-.2430	-.2670	-.2670
MACH (1) = 1.555	BETAT (6) = 6.130	A	-.2590	-.2640	-.2610	-.2570	-.2640	-.2640	-.2370	-.2550	-.2550
MACH (1) = 1.555	BETAT (7) = 8.100	A	-.2590	-.2620	-.2620	-.2590	-.2610	-.2610	-.2310	-.2610	-.2650
MACH (2) = 2.100	BETAT (1) = -9.310	A	-.1810	-.1830	-.1850	-.1830	-.1720	-.1870	-.2240	-.1950	-.1950
MACH (2) = 2.100	BETAT (2) = -6.250	A	-.1850	-.1890	-.1890	-.1880	-.1860	-.1910	-.2440	-.2440	-.2470
MACH (2) = 2.100	BETAT (3) = -4.230	A	-.1860	-.1940	-.1910	-.1890	-.1850	-.1930	-.2340	-.2340	-.2310

AMES 97-707 I49 OEA + S3 + T9 ORBITER BASE

(RBOC27)

SECTION : 1) ORBITER BASE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (4) = -.120

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	.000	-.1820	-.1870	-.1880	.0200	-.1830	-.1940	-.2150	-.1980

MACH (2) = 2.000 BETAT (5) = 3.970

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	.000	-.1950	-.2010	-.2110	.1200	-.1980	-.2140	-.2230	-.2110

MACH (2) = 2.000 BETAT (6) = 6.000

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	.000	-.1910	-.1950	-.1960	.1200	-.1910	-.1930	-.2210	-.2120

MACH (2) = 2.000 BETAT (7) = 8.070

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	.000	-.1950	-.2000	-.1980	.1200	-.1980	-.1910	-.2160	-.2160

(RBOX28) (24 MAY 75)

COMPUTED PRESSURE DATA - 1A98
NAME: 97-707 1A9 C2A + S3 + 19 ORBITER BASE

PARAMETRIC DATA

ALPHAT = 8.0000 ORBINC = 1.0000
RUDDER = 15.0000 ELEVON = 1.0000
RUFLR = .0000

SECTION (1) ORBITER BASE
MACH (1) = 1.555 BETAT (1) = -8.350
MACH (1) = 1.555 BETAT (2) = -8.350
MACH (1) = 1.555 BETAT (3) = -4.230
MACH (1) = 1.555 BETAT (4) = -1.120
MACH (1) = 1.555 BETAT (5) = 4.144
MACH (1) = 1.555 BETAT (6) = 5.154
MACH (1) = 1.555 BETAT (7) = 8.130
MACH (2) = 2.144 BETAT (1) = -8.320
MACH (2) = 2.144 BETAT (2) = -6.260
MACH (2) = 2.144 BETAT (3) = -4.210

DEPENDENT VARIABLE CP

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	-.2690	-.2730	-.2690	-.2740	.0000	-.2660	-.2680	-.3000	-.2810
TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	-.2640	-.2650	-.2580	-.2580	.0000	-.2590	-.2550	-.3000	-.2780
TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	-.2520	-.2560	-.2490	-.2490	.0000	-.2500	-.2520	-.2820	-.2650
TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	-.2420	-.2440	-.2440	-.2430	.0000	-.2410	-.2410	-.2450	-.2510
TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	-.2560	-.2640	-.2580	-.2530	.0000	-.257	-.2550	-.2720	-.2680
TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	-.2630	-.2660	-.2660	-.2640	-.2640	-.2630	-.2640	-.2630	-.2630
TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	-.2630	-.2630	-.2660	-.2630	.0000	-.2640	-.2620	-.2680	-.2630
TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	-.1820	-.1850	-.1840	-.1820	.0000	-.1790	-.1730	-.2030	-.1980
TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	-.1840	-.1890	-.1940	-.1890	.0000	-.1850	-.1840	-.2260	-.2010
TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A	-.1860	-.1890	-.1920	-.1910	.0000	-.1870	-.1960	-.2310	-.2060

AMES 97-707 1A9 O2A + S3 + T9 ORBITER BASE (RBOC28)

SECTION (1) ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = -0.115	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1095	-.1930	-.1940	-.1920	.0220	-.1940	-.1990	-.2040
MACH (2) = 2.000	BETAT (5) = 3.990	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1970	-.2010	-.2030	.0000	-.2050	-.2050	-.2230	-.2120
MACH (2) = 2.000	BETAT (6) = 6.850	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1940	-.1940	-.1940	.0000	-.1920	-.1930	-.2150	-.2040
MACH (2) = 2.000	BETAT (7) = 8.115	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1920	-.1970	-.1960	.0000	-.1950	-.1950	-.2240	-.2040

DATE = SEP 73
 UNDATED PRESSURE DATA - 1489
 100 97-7 109 02A + S3 + T9 UPPER MPS NOZZLE

PARAMETRIC DATA

BETAT = .000
 ORBINC = .000
 RUDDER = .000
 ELEVON = .000
 RUDFLR = .000

REFERENC DATA

SCOP = 2.4510 SQ INCHES
 LREF = 39.8480 INCHES
 BLOC = 39.8480 INCHES
 SCALE = 10000 SCALE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 ALPHAT (1) = -0.350
 X/LNF .250 .500 .750
 PHI
 90.0000 -0.2330 -0.2340
 135.0000 -0.2370 -0.2350 -0.2330
 180.0000 -0.2550 -0.2460 -0.2470
 225.0000 0.0690 -0.0350 -0.2440
 270.0000 -0.2600 -0.2450 -0.2430
 270.0000 -0.2340 -0.2340 -0.2310

MACH (1) = 1.555 ALPHAT (2) = -0.320
 X/LNF .250 .500 .750
 PHI
 90.0000 -0.2320 -0.2330
 135.0000 -0.2360 -0.2340 -0.2310
 180.0000 -0.2480 -0.2450 -0.2320
 225.0000 0.0260 -0.0390 -0.2440
 270.0000 -0.2570 -0.2430 -0.2410
 270.0000 -0.2330 -0.2330 -0.2220

MACH (1) = 1.555 ALPHAT (3) = -0.250
 X/LNF .250 .500 .750
 PHI
 90.0000 -0.2270 -0.2290
 135.0000 -0.2330 -0.2310 -0.2300
 180.0000 -0.2420 -0.2430 -0.2290
 225.0000 -0.0120 -0.0660 -0.2410
 270.0000 -0.2480 -0.2380 -0.2330
 270.0000 -0.2320 -0.2290 -0.2260

MACH (1) = 1.555 ALPHAT (4) = -0.190
 X/LNF .250 .500 .750
 PHI
 90.0000 -0.2310 -0.2310
 135.0000 -0.2340 -0.2330 -0.2320
 180.0000 -0.2430 -0.2460 -0.2330
 225.0000 0.0460 -0.0180 -0.2410
 270.0000 -0.2490 -0.2420 -0.2360
 270.0000 -0.2340 -0.2320 -0.2310

MACH (1) = 1.555 ALPHAT (5) = -0.120
 X/LNF .250 .500 .750
 PHI
 90.0000 -0.2330 -0.2330
 135.0000 -0.2380 -0.2380 -0.2340
 180.0000 -0.2440 -0.2490 -0.2360
 225.0000 -0.0620 -0.0220 -0.2400
 270.0000 -0.2520 -0.2480 -0.2390

TABLATED PRESSURE DATA - 1A98

AMES 97-707 1A9 ORA + S3 + 19 UPPER MPS NOZZLE

(RBOOK1)

SECTION : 1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.955 ALPHAT(5) = -0.120
 X/LNF .250 .500 .750
 PHI
 275.0300 -0.2360 -0.2350 -0.2340

MACH (1) = 1.555 ALPHAT(6) = 1.950
 X/LNF .250 .500 .750
 PHI
 .0490 -0.2270 -0.2260
 90.0240 -0.2310 -0.2290 -0.2300
 135.0400 -0.2320 -0.2440 -0.2290
 180.0480 -0.0780 -0.1500 -0.2340
 225.0480 -0.0240 -0.2400 -0.2310
 270.0480 -0.2320 -0.2290 -0.2270

MACH (1) = 1.555 ALPHAT(7) = 4.030
 X/LNF .250 .500 .750
 PHI
 .0490 -0.2250 -0.2250
 90.0400 -0.2290 -0.2280 -0.2280
 135.0400 -0.2270 -0.2350 -0.2290
 180.0400 -0.0860 -0.1820 -0.2280
 225.0400 -0.2370 -0.2350 -0.2280
 270.0400 -0.2300 -0.2270 -0.2250

MACH (1) = 1.555 ALPHAT(8) = 5.060
 X/LNF .250 .500 .750
 PHI
 .0490 -0.2280 -0.2290
 90.0400 -0.2340 -0.2310 -0.2310
 135.0400 -0.2320 -0.2390 -0.2300
 180.0400 -0.0910 -0.2020 -0.2300
 225.0400 -0.2360 -0.2350 -0.2300
 270.0400 -0.2350 -0.2320 -0.2270

MACH (1) = 1.555 ALPHAT(9) = 8.130
 X/LNF .250 .500 .750
 PHI
 .0490 -0.2270 -0.2280
 90.0400 -0.2330 -0.2310 -0.2290
 135.0400 -0.2310 -0.2350 -0.2300
 180.0400 -0.1080 -0.2200 -0.2290
 225.0400 -0.2390 -0.2300 -0.2290
 270.0400 -0.2340 -0.2300 -0.2260

MACH (2) = 2.000 ALPHAT(1) = -0.360
 X/LNF .250 .500 .750
 PHI
 .0490 -0.1540 -0.1550
 90.0400 -0.1560 -0.1540 -0.1550
 135.0400 -0.2210 -0.1610 -0.1730
 180.0400 -0.1970 -0.0460 -0.1610
 225.0400 -0.1990 -0.1600 -0.1670

DATE: SEP 72

COMPUTED PRESSURE DATA - IAB8

AMEE 97-707 IAS OCA + S3 + T9 UPPER MPS NOZZLE

(RBO001)

SECTION (1) MPS N 70 DEPENDENT VARIABLE CP

MACH (2) = 2.1000 ALPHAT(1) = -0.1360
 X/LNF .250 .500 .750
 PHI
 270.1620 -.1550 -.1560 -.1521

MACH (2) = 2.1000 ALPHAT(2) = -0.1310
 X/LNF .250 .500 .750
 PHI
 .1620 -.1620 -.1630
 90.1620 -.1630 -.1630
 135.1620 -.2220 -.1690 -.1820
 180.1620 .1230 .0300 -.1680
 225.1620 -.1980 -.1760 -.1730
 270.1620 -.1630 -.1630 -.1590

MACH (2) = 2.1000 ALPHAT(3) = -0.2250
 X/LNF .250 .500 .750
 PHI
 .1620 -.1680 -.1670
 90.1620 -.1680 -.1670 -.1690
 135.1620 -.2210 -.1760 -.1830
 180.1620 .0910 .0110 -.1740
 225.1620 -.1980 -.1800 -.1770
 270.1620 -.1690 -.1680 -.1650

MACH (2) = 2.1000 ALPHAT(4) = -0.2210
 X/LNF .250 .500 .750
 PHI
 .1620 -.1720 -.1730
 90.1620 -.1750 -.1740 -.1750
 135.1620 -.2210 -.1820 -.1940
 180.1620 .0650 .0460 -.1870
 225.1620 -.2030 -.1830 -.1810
 270.1620 -.1750 -.1740 -.1740

MACH (2) = 2.1000 ALPHAT(5) = -0.1600
 X/LNF .250 .500 .750
 PHI
 .1620 -.1750 -.1760
 90.1620 -.1770 -.1760 -.1760
 135.1620 -.2170 -.1870 -.1920
 180.1620 .0480 .0410 -.1840
 225.1620 -.2020 -.1920 -.1830
 270.1620 -.1790 -.1760 -.1730

MACH (2) = 2.1000 ALPHAT(6) = 1.8900
 X/LNF .250 .500 .750
 PHI
 .1620 -.1780 -.1790
 90.1620 -.1820 -.1790 -.1780
 135.1620 -.2090 -.1870 -.1930
 180.1620 .0310 -.0140 -.1910
 225.1620 -.2030 -.1960 -.1910

AMES 97-707 1A9 02A + S3 + T9 UPPER MPS NOZZLE

(R500013)

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CF

MACH (2) = 2.1440 ALPHAT(6) = 1.890

X/LNP	.250	.500	.750
PHI			
270.000	-.1810	-.1780	-.1760

MACH (2) = 2.1440 ALPHAT(7) = 3.930

X/LNP	.250	.500	.750
PHI			
.000	-.1780	-.1810	
90.000	-.1830	-.1810	-.1840
135.000	-.1970	-.1890	-.1920
180.000	.0220	-.0330	-.1940
225.000	-.2030	-.1960	-.1860
270.000	-.1830	-.1820	-.1780

MACH (2) = 2.1440 ALPHAT(8) = 5.980

X/LNP	.250	.500	.750
PHI			
.000	-.1790	-.1820	
90.000	-.1830	-.1820	-.1830
135.000	-.1930	-.1850	-.1920
180.000	-.0030	-.0750	-.1920
225.000	-.2060	-.1990	-.1860
270.000	-.1840	-.1840	-.1840

MACH (2) = 2.1440 ALPHAT(9) = 8.020

X/LNP	.250	.500	.750
PHI			
.000	-.1850	-.1850	
90.000	-.1860	-.1860	-.1850
135.000	-.1980	-.1850	-.1940
180.000	-.0250	-.0940	-.1950
225.000	-.2080	-.2010	-.1890
270.000	-.1860	-.1870	-.1830

(RBOOD) (24 MAY 73)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98
 AVCS 97-757 1A9 CBA + S3 + 19 UPPER MPS NOZZLE

PARAMETRIC DATA

ALPHAT = 8.0000 ORBINC = .5000
 RUDDER = .0000 ELEVON = .0000
 RUFLR = .0000

REFERE DATA

SREF = 2.4210 SQ.FT. XREF = 28.5300 INCHES
 LREF = 39.8490 INCHES YREF = .0000 INCHES
 BREF = 39.8490 INCHES ZREF = .0000 INCHES
 SCALE = .0000 SC.

DEPENDENT VARIABLE CP

SECTION (1) = 1.555 BETAT (1) = -7.140	X/LNP	PHI	.250	.500	.750
MACH (1) = 1.555 BETAT (2) = -5.100	.000		-.2550	-.2590	
	90.000		-.2630	-.2620	-.2630
	135.000		-.2610	-.2660	-.2630
	180.000		-.1580	-.2100	-.2640
	225.000		-.2800	-.2640	-.2630
270.000		-.2670	-.2640	-.2600	
MACH (1) = 1.555 BETAT (3) = -3.050	X/LNP	PHI	.250	.500	.750
	.000		-.2420	-.2460	
	90.000		-.2500	-.2470	-.2460
	135.000		-.2580	-.2600	-.2450
	180.000		-.0940	-.1570	-.2580
225.000		-.2610	-.2600	-.2510	
270.000		-.2520	-.2500	-.2490	
MACH (1) = 1.555 BETAT (4) = 5.110	X/LNP	PHI	.250	.500	.750
	.000		-.2380	-.2410	
	90.000		-.2470	-.2420	-.2390
	135.000		-.2560	-.2470	-.2400
	180.000		-.1180	-.2160	-.2400
225.000		-.2570	-.2480	-.2410	
270.000		-.2450	-.2420	-.2390	
MACH (1) = 1.555 BETAT (5) = 7.140	X/LNP	PHI	.250	.500	.750
	.000		-.2460	-.2470	
	90.000		-.2550	-.2520	-.2520
	135.000		-.2680	-.2600	-.2520
	180.000		-.1540	-.1660	-.2550
225.000		-.2770	-.2580	-.2500	
270.000		-.2500	-.2470	-.2470	

DATE 21 SEP 75

TABLATED PRESSURE DATA - 1A98
AMES 97-757 IA9 O2A + S3 + T9 UPPER MPS NOZZLE

(R80002)

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE

MACH (1) = 1.555 BETAT (5) = 7.143

X/LNF	.250	.500	.750
PHI			
270.000	-.2680	-.2580	-.2560

MACH (1) = 1.555 BETAT (6) = 9.190

X/LNF	.250	.500	.750
PHI			
.000	-.2600	-.2610	
90.000	-.2780	-.2710	-.2690
135.000	-.2880	-.2720	-.2740
180.000	-.1800	-.1340	-.2710
225.000	-.2990	-.2720	-.2740
270.000	-.2670	-.2670	-.2680

MACH (2) = 2.000 BETAT (1) = -6.320

X/LNF	.250	.500	.750
PHI			
.000	-.1800	-.1810	
90.000	-.1940	-.1890	-.1840
135.000	-.1930	-.1840	-.1880
180.000	-.1490	-.0840	-.1960
225.000	-.2030	-.1930	-.1890
270.000	-.1890	-.1840	-.1810

MACH (2) = 2.000 BETAT (2) = -5.270

X/LNF	.250	.500	.750
PHI			
.000	-.1860	-.1860	
90.000	-.1960	-.1890	-.1880
135.000	-.2070	-.1820	-.1910
180.000	-.1140	-.0680	-.1980
225.000	-.2020	-.2040	-.1890
270.000	-.1890	-.1870	-.1890

MACH (2) = 2.000 BETAT (3) = -4.210

X/LNF	.250	.500	.750
PHI			
.000	-.1870	-.1880	
90.000	-.1930	-.1890	-.1920
135.000	-.1990	-.1970	-.1940
180.000	-.0660	-.0720	-.2040
225.000	-.2030	-.2010	-.1930
270.000	-.1910	-.1940	-.1890

MACH (2) = 2.000 BETAT (4) = 3.990

X/LNF	.250	.500	.750
PHI			
.000	-.1930	-.1940	
90.000	-.1990	-.1970	-.1970
135.000	-.2180	-.2080	-.2060
180.000	-.0930	-.0530	-.2100
225.000	-.2240	-.2170	-.2130

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

AMES 97-707 1A3 C2A + S3 + T9 UPPER MPS NOZZLE

(RBC002)

SECTION (1) MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 2.1660 BETAT (4) = 3.997
 X/LNP .250 .500 .750
 PHI
 270.000 -.2010 -.1970 -.1920

MACH (2) = 2.1660 BETAT (5) = 6.1660
 X/LNP .250 .500 .750
 PHI
 .1660 -.1870 -.1890
 90.1660 -.1930 -.1920 -.1930
 135.1660 -.2070 -.2040 -.1930
 180.1660 -.1380 .1410 -.2120
 225.1660 -.2230 -.1860 -.1940
 270.1660 -.1990 -.1920 -.1850

MACH (2) = 2.1660 BETAT (6) = 8.120
 X/LNP .250 .500 .750
 PHI
 .1660 -.1930 -.1940
 90.1660 -.2110 -.2110 -.2110
 135.1660 -.2190 -.2110 -.2110
 180.1660 -.1890 -.1830 -.2190
 225.1660 -.2240 -.1950 -.2120
 270.1660 -.2150 -.1970 -.1940

AMES 97-707 1A9 OCA + S3 + T9 UPPER MPS NOZZLE

(RBO013) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.3300 INCHES
 LREF = 39.8490 INCHES YMRP = .0020 INCHES
 BREF = 39.8490 INCHES ZMRP = .0020 INCHES
 SCALE = .0310 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 GRBINC = .000
 RUDDER = .000 ELEVON = .000
 RUFLR = .000

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -7.120	X/LNP	.250	.500	.750
PHI					
.000			-.2530	-.2570	
90.000			-.2590	-.2560	-.2600
135.000			-.2880	-.2790	-.2600
180.000			-.1630	-.2010	-.2610
225.000			-.2800	-.2670	-.2590
270.000			-.2620	-.2600	-.2570

MACH (2) = 1.555 BETAT (2) = -5.070

X/LNP	.250	.500	.750
PHI			
.000	-.2410	-.2430	
90.000	-.2470	-.2430	-.2430
135.000	-.2680	-.2620	-.2440
180.000	-.0770	-.1610	-.2540
225.000	-.2620	-.2600	-.2480
270.000	-.2490	-.2460	-.2450

MACH (3) = 1.555 BETAT (3) = -3.050

X/LNP	.250	.500	.750
PHI			
.000	-.2360	-.2380	
90.000	-.2440	-.2400	-.2370
135.000	-.2540	-.2440	-.2360
180.000	-.1110	-.2180	-.2360
225.000	-.2530	-.2440	-.2400
270.000	-.2420	-.2400	-.2390

MACH (4) = 1.555 BETAT (4) = 5.080

X/LNP	.250	.500	.750
PHI			
.000	-.2410	-.2430	
90.000	-.2480	-.2460	-.2470
135.000	-.2640	-.2590	-.2460
180.000	-.0920	-.1650	-.2470
225.000	-.2730	-.2570	-.2460
270.000	-.2450	-.2420	-.2400

MACH (5) = 1.555 BETAT (5) = 7.110

X/LNP	.250	.500	.750
PHI			
.000	-.2510	-.2540	
90.000	-.2620	-.2600	-.2530
135.000	-.2790	-.2690	-.2540
180.000	-.1500	-.1200	-.2650
225.000	-.2680	-.2690	-.2600

DATE 21 SEP 73
 COMPUTED PRESSURE DATA - 1A98
 AMES 97-757 1A9 OEA + S3 + T9 UPPER MPS NOZZLE
 (RBO0313)

SECTION (1) MPS NOZZLE		DEPENDENT VARIABLE CP	
MACH (1) = 1.555	BETAT (5) = 7.115	X/LNF	.250 .514 .750
		PHI	
		275.144	-.2530 -2.520 -2.510
MACH (1) = 1.555	BETAT (6) = 3.140	X/LNF	.250 .514 .750
		PHI	
		.144	-.2560 -2.580
		90.144	-.2740 -2.680 -2.670
		135.144	-.2860 -2.710 -2.650
		180.144	-.1390 -1.920 -2.660
		225.144	-.2920 -2.730 -2.680
		270.144	-.2620 -2.590 -2.570
MACH (2) = 2.144	BETAT (3) = -8.300	X/LNF	.250 .514 .750
		PHI	
		.144	-.1810 -1.820
		90.144	-.1920 -1.860 -1.860
		135.144	-.1950 -1.840 -1.890
		180.144	-.1290 -1.660 -1.970
		225.144	-.2440 -1.960 -1.850
		270.144	-.1870 -1.850 -1.820
MACH (2) = 2.100	BETAT (2) = -6.250	X/LNF	.250 .514 .750
		PHI	
		.144	-.1820 -1.830
		90.144	-.1900 -1.880 -1.880
		135.144	-.2030 -1.890 -1.890
		180.144	-.1110 -1.450 -1.970
		225.144	-.2420 -1.980 -1.880
		270.144	-.1880 -1.870 -1.830
MACH (2) = 2.144	BETAT (3) = -4.200	X/LNF	.250 .514 .750
		PHI	
		.144	-.1860 -1.870
		90.144	-.1890 -1.880 -1.880
		135.144	-.2240 -2.140 -1.940
		180.144	-.1630 -1.550 -2.110
		225.144	-.2190 -1.990 -1.950
		270.144	-.1910 -1.890 -1.860
MACH (2) = 2.100	BETAT (4) = 3.970	X/LNF	.250 .514 .750
		PHI	
		.144	-.1910 -1.920
		90.144	-.1970 -1.940 -1.950
		135.144	-.2210 -2.120 -1.980
		180.144	-.1590 -1.590 -2.150
		225.144	-.2330 -2.140 -2.110

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98
ANES 97-707 1A9 OSA + S3 + T9 UPPER MPS NOZZLE

(RB0003)

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 2.0000 BETAT (4) = 3.970

X/LNF	.250	.500	.750
PHI			
270.000	-.1960	-.1930	-.1910

MACH (2) = 2.0000 BETAT (5) = 6.030

X/LNF	.250	.500	.750
PHI			
.000	-.1870	-.1890	
90.000	-.1920	-.1910	-.1930
135.000	-.2080	-.2060	-.1940
180.000	-.1230	.0120	-.2030
225.000	-.2290	-.1890	-.2010
270.000	-.1950	-.1910	-.1850

MACH (2) = 2.0000 BETAT (6) = 8.080

X/LNF	.250	.500	.750
PHI			
.000	-.1930	-.1930	
90.000	-.1990	-.1970	-.1980
135.000	-.2110	-.2110	-.1990
180.000	-.1460	-.1210	-.2080
225.000	-.2240	-.1990	-.2050
270.000	-.2020	-.1970	-.1930

(RBC054) (24 MAY 73)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1498
 AMES 97-717 1A9 O2A + S3 + T9 UFFER MPS NOZZLE

PARAMETRIC DATA

ALPHAT = 4.140 ORBINC = .510
 RUDDER = .140 ELEVON = .100
 RUTFLR = .140

REFERENT DATA

SREF = 2.4210 SQ. FT. XREF = 29.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .1400 INCHES
 BREF = 39.8490 INCHES ZMRP = .1400 INCHES
 SCALE = .1000 SCALE

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE	MACH (1) = 1.555	BETAT (1) = -7.090	X/LNP	PHI	X/LNP	PHI
			.250	.800	.750	
			.000	-.2470	-.2490	
			.90.100	-.2510	-.2490	-.2520
			135.100	-.2840	-.2720	-.2530
			180.100	-.1170	-.1910	-.2620
			225.100	-.2730	-.2680	-.2540
			270.100	-.2550	-.2520	-.2510
			X/LNP	.250	.510	.750
			PHI			
			.000	-.2410	-.2410	
			.90.100	-.2440	-.2410	-.2420
			135.100	-.2710	-.2590	-.2420
			180.100	-.1490	-.1610	-.2520
			225.100	-.2620	-.2590	-.2460
			270.100	-.2460	-.2430	-.2430
			X/LNP	.250	.510	.750
			PHI			
			.000	-.2360	-.2380	
			.90.100	-.2410	-.2380	-.2380
			135.100	-.2550	-.2480	-.2380
			180.100	-.1980	-.2210	-.2380
			225.100	-.2530	-.2490	-.2410
			270.100	-.2430	-.2410	-.2390
			X/LNP	.250	.510	.750
			PHI			
			.000	-.2410	-.2410	
			.90.100	-.2490	-.2470	-.2460
			135.100	-.2670	-.2630	-.2480
			180.100	-.1640	-.1150	-.2480
			225.100	-.2780	-.2640	-.2450
			270.100	-.2420	-.2410	-.2390
			X/LNP	.250	.510	.750
			PHI			
			.000	-.2480	-.2490	
			.90.100	-.2560	-.2540	-.2550
			135.100	-.2750	-.2690	-.2550
			180.100	-.1080	-.0710	-.2650
			225.100	-.2910	-.2710	-.2540

MACH (1) = 1.555 BETAT (4) = 5.160

MACH (1) = 1.555 BETAT (5) = 7.160

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

AMES 97-7: A9 O2A + S3 + T9 UPPER MPS NOZZLE

(RBC0014)

SECTION (1) MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.955 BETAT (5) = 7.080

X/LNF	.250	.500	.750
PHI			
270.000	-.2490	-.2470	-.2460

MACH (1) = 1.955 BETAT (6) = 9.100

X/LNF	.250	.500	.750
PHI			
.020	-.2530	-.2550	
90.000	-.2730	-.2660	-.2630
135.000	-.2820	-.2700	-.2640
180.000	-.1130	-.0610	-.2660
225.000	-.3010	-.2790	-.2640
270.000	-.2560	-.2520	-.2520

MACH (2) = 2.000 BETAT (1) = -8.270

X/LNF	.250	.500	.750
PHI			
.020	-.1780	-.1790	
90.000	-.1890	-.1630	-.1840
135.000	-.1890	-.1820	-.1880
180.000	-.1200	-.0280	-.1960
225.000	-.2140	-.1900	-.1830
270.000	-.1860	-.1830	-.1840

MACH (2) = 2.000 BETAT (2) = -6.240

X/LNF	.250	.500	.750
PHI			
.020	-.1820	-.1840	
90.000	-.1860	-.1840	-.1890
135.000	-.2170	-.1940	-.1890
180.000	-.1940	-.1420	-.1980
225.000	-.2070	-.2100	-.1880
270.000	-.1890	-.1860	-.1830

MACH (2) = 2.000 BETAT (3) = -4.200

X/LNF	.250	.500	.750
PHI			
.020	-.1840	-.1850	
90.000	-.1880	-.1860	-.1860
135.000	-.2280	-.2100	-.1910
180.000	-.1140	-.0390	-.2100
225.000	-.2110	-.1950	-.1960
270.000	-.1890	-.1880	-.1840

MACH (2) = 2.000 BETAT (4) = 3.950

X/LNF	.250	.500	.750
PHI			
.020	-.1860	-.1880	
90.000	-.1940	-.1910	-.1920
135.000	-.2220	-.1960	-.1950
180.000	-.1030	-.0350	-.2120
225.000	-.2320	-.2120	-.1960

DATE 21 SEP 73 TABULATED PRESSURE DATA - IA98
 AMES 97-757 IA9 OEA + S3 + T9 UPPER MPS NOZZLE

(RBCC34)

SECTION (3) MPS NOZZLE
 DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = 3.950	X/LNF	.250	.500	.750
		PHI			
		275.000	-.1920	-.1900	-.1840
		X/LNF	.250	.500	.750
		PHI			
		1000	-.1860	-.1870	
		90.000	-.1890	-.1890	-.1900
		135.000	-.2060	-.2040	-.1920
		180.000	-.1880	-.1260	-.1210
		225.000	-.2290	-.1890	-.1980
		270.000	-.1910	-.1870	-.1820
		X/LNF	.250	.500	.750
		PHI			
		1000	-.1900	-.1910	
		90.000	-.1990	-.1960	-.1960
		135.000	-.2140	-.2070	-.1970
		180.000	-.1240	-.1090	-.2090
		225.000	-.2190	-.2010	-.2060
		270.000	-.2030	-.1960	-.1870
		X/LNF	.250	.500	.750
		PHI			
		1000	-.1900	-.1910	
		90.000	-.1990	-.1960	-.1960
		135.000	-.2140	-.2070	-.1970
		180.000	-.1240	-.1090	-.2090
		225.000	-.2190	-.2010	-.2060
		270.000	-.2030	-.1960	-.1870

MACH (2) = 2.000 BETAT (6) = 8.000

REFERENCE DATA

SREF = 2.4210 SQ.FT. YMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

ALPHAT = 2.1400 ORBINC = .500
RUDDER = .0000 ELEVNON = .000
RUDDFLR = .0000

PARAMETRIC DATA

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE
MACH (1) = 1.555 BETAT (1) = -7.100

X/LNF PHI	.250	.500	.750
.000	-.2450	-.2460	
90.000	-.2470	-.2450	-.2490
135.000	-.2860	-.2710	-.2490
180.000	-.1840	-.1690	-.2600
225.000	-.2740	-.2650	-.2530
270.000	-.2520	-.2500	-.2500

MACH (2) = 1.555 BETAT (2) = -5.070

X/LNF PHI	.250	.500	.750
.000	-.2400	-.2410	
90.000	-.2410	-.2410	-.2430
135.000	-.2730	-.2570	-.2450
180.000	-.1630	-.1370	-.2540
225.000	-.2620	-.2640	-.2470
270.000	-.2470	-.2450	-.2430

MACH (3) = 1.555 BETAT (3) = -3.050

X/LNF PHI	.250	.500	.750
.000	-.2330	-.2360	
90.000	-.2380	-.2360	-.2350
135.000	-.2530	-.2440	-.2360
180.000	-.1860	-.1950	-.2370
225.000	-.2540	-.2480	-.2380
270.000	-.2410	-.2380	-.2370

MACH (4) = 1.555 BETAT (4) = 5.050

X/LNF PHI	.250	.500	.750
.000	-.2390	-.2390	
90.000	-.2460	-.2430	-.2450
135.000	-.2670	-.2610	-.2450
180.000	-.1820	-.1140	-.2530
225.000	-.2790	-.2590	-.2440
270.000	-.2400	-.2370	-.2360

MACH (5) = 1.555 BETAT (5) = 7.070

X/LNF PHI	.250	.500	.750
.000	-.2410	-.2420	
90.000	-.2500	-.2430	-.2490
135.000	-.2730	-.2630	-.2490
180.000	-.1920	-.1600	-.2550
225.000	-.2860	-.2640	-.2470

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98 (RBD00J5)

AMES 97-7J7 1A9 02A + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE		DEPENDENT VARIABLE CP	
MACH (1) = 1.555	BETAT (5) = 7.177J	X/LNF	.25J .50J .75J
		PHI	27J.00Z -242Z -239Z -238Z
MACH (1) = 1.555	BETAT (6) = 9.099J	X/LNF	.25J .50J .75J
		PHI	.00Z -254Z -255Z
			9J.00Z -266Z -261Z -261Z
			135.00Z -280Z -273Z -261Z
			18J.00Z -469Z -409Z -270Z
			225.00Z -306Z -282Z -257Z
			27J.00Z -255Z -246Z -245Z
MACH (2) = 2.000	BETAT (1) = -6.280	X/LNF	.25J .50J .75J
		PHI	.00Z -173Z -175Z
			9J.00Z -180Z -178Z -180Z
			135.00Z -199Z -182Z -183Z
			18J.00Z -198Z -114Z -191Z
			225.00Z -197Z -184Z -179Z
			27J.00Z -184Z -180Z -176Z
MACH (2) = 2.000	BETAT (2) = -6.250	X/LNF	.25J .50J .75J
		PHI	.00Z -176Z -178Z
			9J.00Z -180Z -177Z -177Z
			135.00Z -210Z -187Z -183Z
			18J.00Z -156Z -117Z -191Z
			225.00Z -219Z -195Z -181Z
			27J.00Z -183Z -180Z -178Z
MACH (2) = 2.000	BETAT (3) = -4.140	X/LNF	.25J .50J .75J
		PHI	.00Z -179Z -181Z
			9J.00Z -183Z -181Z -181Z
			135.00Z -210Z -190Z -185Z
			18J.00Z -102Z -108Z -196Z
			225.00Z -206Z -196Z -188Z
			27J.00Z -185Z -183Z -180Z
MACH (2) = 2.000	BETAT (4) = 3.940	X/LNF	.25J .50J .75J
		PHI	.00Z -187Z -188Z
			9J.00Z -194Z -191Z -190Z
			135.00Z -226Z -195Z -195Z
			18J.00Z -128Z -147Z -203Z
			225.00Z -222Z -204Z -199Z

(RECORDS)

AMES 97-707 1A9 O2A + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE (P

MACH (2) = 2.060 BETAT (4) = 3.940 X/LNP .250 .500 .750
 PHI 270.000 -.1920 -.1880 -.1840

MACH (2) = 2.060 BETAT (5) = 5.980 X/LNP .250 .500 .750
 PHI .000 -.1810 -.1820
 90.000 -.1870 -.1850 -.1860
 135.000 -.2190 -.2130 -.1880
 180.000 -.1680 -.1530 -.1710
 225.000 -.2240 -.1870 -.1980
 270.000 -.1880 -.1840 -.1720

MACH (2) = 2.060 BETAT (6) = 9.020 X/LNP .250 .500 .750
 PHI .000 -.1830 -.1840
 90.000 -.1940 -.1920 -.1910
 135.000 -.2110 -.1960 -.1920
 180.000 -.1490 -.1720 -.1850
 225.000 -.2160 -.1930 -.1850
 270.000 -.1940 -.1920 -.1830

(RB0006) (24 MAY 73)

INSULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 OCA + S3 + T9 UPPER MPS NOZZLE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

REFERENCE DATA

SREF = 8.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0010 SCALE

DEPENDENT VARIABLE CP

SECTION 4 (1) MPS NOZZLE
 MACH (1) = 1.555 BETAT (1) = -7.100

X/LNP	.250	.500	.750
PHI .000	-.2360	-.2380	-.2410
90.000	-.2390	-.2380	-.2410
135.000	-.2810	-.2960	-.2540
180.000	-.0510	-.0740	-.2440
225.000	-.2630	-.2630	-.2410
270.000	-.2440	-.2410	-.2410

MACH (1) = 1.555 BETAT (2) = -5.080

X/LNP	.250	.500	.750
PHI .000	-.2370	-.2350	-.2380
90.000	-.2360	-.2360	-.2380
135.000	-.2680	-.2490	-.2390
180.000	-.0740	-.0920	-.2510
225.000	-.2590	-.2560	-.2420
270.000	-.2440	-.2410	-.2410

MACH (1) = 1.555 BETAT (3) = -3.060

X/LNP	.250	.500	.750
PHI .000	-.2360	-.2380	-.2380
90.000	-.2380	-.2370	-.2380
135.000	-.2610	-.2450	-.2380
180.000	-.0720	-.1460	-.2430
225.000	-.2570	-.2510	-.2420
270.000	-.2430	-.2410	-.2390

MACH (1) = 1.555 BETAT (4) = 5.050

X/LNP	.250	.500	.750
PHI .000	-.2350	-.2350	-.2350
90.000	-.2450	-.2410	-.2430
135.000	-.2590	-.2630	-.2430
180.000	-.0860	-.1480	-.2540
225.000	-.2810	-.2540	-.2450
270.000	-.2360	-.2340	-.2330

MACH (1) = 1.555 BETAT (5) = 7.060

X/LNP	.250	.500	.750
PHI .000	-.2350	-.2380	-.2380
90.000	-.2460	-.2430	-.2450
135.000	-.2650	-.2630	-.2440
180.000	-.0770	-.1020	-.2370
225.000	-.2860	-.2570	-.2440

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

AMES 97-707 1A9 O2A + S3 + T9 UPPER MPS NOZZLE (R800'6)

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 7.060
 X/LNF .250 .500 .750
 PHI 270.000 -2380 -2350 -2330

MACH (1) = 1.555 BETAT (6) = 9.190
 X/LNF .250 .500 .750
 PHI .000 -2440 -2460
 90.000 -2580 -2540 -2520
 135.000 -2700 -2690 -2650
 180.000 -0530 -0110 -2660
 225.000 -2970 -2720 -2500
 270.000 -2470 -2400 -2370

MACH (2) = 2.000 BETAT (1) = -6.250
 X/LNF .250 .500 .750
 PHI .000 -1700 -1710
 90.000 -1740 -1720 -1740
 135.000 -1980 -1840 -1780
 180.000 -0730 -0460 -1890
 225.000 -1910 -1870 -1740
 270.000 -1780 -1750 -1710

MACH (2) = 2.000 BETAT (2) = -6.250
 X/LNF .250 .500 .750
 PHI .000 -1740 -1760
 90.000 -1800 -1750 -1740
 135.000 -1930 -1810 -1800
 180.000 -0370 -0310 -1910
 225.000 -2050 -1990 -1790
 270.000 -1820 -1800 -1750

MACH (2) = 2.000 BETAT (3) = -1.130
 X/LNF .250 .500 .750
 PHI .000 -1730 -1750
 90.000 -1800 -1780 -1770
 135.000 -2150 -1870 -1920
 180.000 -0280 -0640 -1880
 225.000 -2070 -1900 -1820
 270.000 -1790 -1770 -1730

MACH (2) = 2.000 BETAT (4) = 3.950
 X/LNF .250 .500 .750
 PHI .000 -1810 -1820
 90.000 -1860 -1820 -1820
 135.000 -2190 -1900 -1920
 180.000 -0180 -0330 -1960
 225.000 -2140 -1970 -1910

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B
AMES 97-707 1A9 OZA + S3 + T9 UPPER MPS NOZZLE (R800-6)

SECTION (1) MPS NOZZLE		DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (4) = 3.950	X/LNP	.250 .500 .750
		PHI	
		270.000	-.1860 -.1810 -.1760
MACH (2) = 2.000	BETAT (5) = 5.980	X/LNP	.250 .500 .750
		PHI	
		.000	-.1770 -.1780
		90.000	-.1820 -.1830 -.1810
		135.000	-.2040 -.2010 -.1820
		180.000	-.0510 .0970 -.1900
		225.000	-.2140 -.1820 -.1940
		270.000	-.1830 -.1780 -.1730

AMES 97-707 1A9 O2A + S3 + T9 UPPER MPS NOZZLE

(RBO037) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 59. FT. XMRP = 20.5300 INCHES
 LRFP = 39.8490 INCHES YMRP = .0220 INCHES
 BRFP = 39.8490 INCHES ZMRP = .0220 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHA = -2.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.110

X/LNP	.250	.500	.750
PHI			
.000	-.2330	-.2340	
90.000	-.2350	-.2320	-.2380
135.000	-.2730	-.2480	-.2379
180.000	-.0790	-.0340	-.2540
225.000	-.2660	-.2620	-.2400
270.000	-.2430	-.2400	-.2380

MACH (1) = 1.555 BETAT (2) = -9.080

X/LNP	.250	.500	.750
PHI			
.000	-.2330	-.2320	
90.000	-.2340	-.2340	-.2350
135.000	-.2720	-.2460	-.2450
180.000	-.0650	-.0920	-.2480
225.000	-.2580	-.2560	-.2360
270.000	-.2390	-.2360	-.2350

MACH (1) = 1.555 BETAT (3) = -3.070

X/LNP	.250	.500	.750
PHI			
.000	-.2310	-.2330	
90.000	-.2310	-.2330	-.2340
135.000	-.2610	-.2400	-.2330
180.000	-.0620	-.1230	-.2430
225.000	-.2530	-.2470	-.2370
270.000	-.2390	-.2360	-.2350

MACH (1) = 1.555 BETAT (4) = 5.040

X/LNP	.250	.500	.750
PHI			
.000	-.2270	-.2270	
90.000	-.2380	-.2330	-.2330
135.000	-.2510	-.2590	-.2360
180.000	-.0820	-.1470	-.2480
225.000	-.2780	-.2460	-.2400
270.000	-.2290	-.2280	-.2270

MACH (1) = 1.555 BETAT (5) = 7.060

X/LNP	.250	.500	.750
PHI			
.000	-.2270	-.2280	
90.000	-.2400	-.2370	-.2370
135.000	-.2690	-.2620	-.2370
180.000	-.0620	-.1290	-.2520
225.000	-.2780	-.2470	-.2460

DATE 21 SEP 73

ABULATED PRESSURE DATA - 1A9B
 AMES 97-7J7 IA9 O2A + S3 + T9 UPPER MPS NOZZLE

(RBO0577)

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.955 BETAT (5) = 7.060
 X/LNP .250 .500 .750
 PHI 270.000 -.2320 -.2280 -.2260

MACH (1) = 1.955 BETAT (6) = 9.080
 X/LNP .250 .500 .750
 PHI .000
 90.000 -.2290 -.2310
 135.000 -.2410 -.2370 -.2390
 180.000 -.2570 -.2590 -.2380
 225.000 -.0390 .0400 -.2520
 270.000 -.2900 -.2540 -.2380
 .000
 270.000 -.2330 -.2260 -.2220

MACH (2) = 2.000 BETAT (1) = -6.310
 X/LNP .250 .500 .750
 PHI .000
 90.000 -.1650 -.1680
 135.000 -.1700 -.1690 -.1670
 180.000 -.1680 -.1650 -.1720
 225.000 -.0340 .1160 -.1860
 270.000 -.1920 -.1900 -.1710
 .000
 270.000 -.1730 -.1700 -.1670

MACH (2) = 2.000 BETAT (2) = -6.260
 X/LNP .250 .500 .750
 PHI .000
 90.000 -.1720 -.1750
 135.000 -.1790 -.1730 -.1710
 180.000 -.1760 -.1750 -.1780
 225.000 .0200 .0310 -.1880
 270.000 -.2160 -.1950 -.1790
 .000
 270.000 -.1820 -.1770 -.1730

MACH (2) = 2.000 BETAT (3) = -4.230
 X/LNP .250 .500 .750
 PHI .000
 90.000 -.1770 -.1790
 135.000 -.1810 -.1780 -.1770
 180.000 .0640 -.0360 -.1830
 225.000 -.2180 -.1890 -.1930
 270.000 -.1820 -.1810 -.1770

MACH (2) = 2.000 BETAT (4) = 3.940
 X/LNP .250 .500 .750
 PHI .000
 90.000 -.1760 -.1790
 135.000 -.1850 -.1810 -.1800
 180.000 -.2220 -.1910 -.1920
 225.000 .0280 .0530 -.1920
 270.000 -.2160 -.1940 -.1940

AMES 97-707 IAG CSA + S3 + T9 UPPER MPS NOZZLE

(RB0007)

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (4) = 3.940 X/LNP .250 .500 .750
PHI
270.000 -.1840 -.1820 -.1730

MACH (2) = 2.000 BETAT (5) = 5.970 X/LNP .250 .500 .750
PHI

.000 -.1720 -.1760
90.000 -.1810 -.1770 -.1780
135.000 -.2110 -.1980 -.1810
180.000 -.1430 .1675 -.1930
225.000 -.1980 -.1930 -.1930
270.000 -.1830 -.1750 -.1710

MACH (2) = 2.000 BETAT (6) = 8.010

X/LNP .250 .500 .750
PHI
.000 -.1730 -.1760
90.000 -.1820 -.1780 -.1790
135.000 -.2010 -.2040 -.1810
180.000 .1460 .1330 -.1960
225.000 -.1840 -.1850 -.1970
270.000 -.1820 -.1750 -.1710

DATE 21 SEP 73

TABLATED PRESSURE DATA - 1A98

AMES 97-707 1A9 O2A - S3 + T9 UPPER MPS NOZZLE

PAGE 405

(RBC008) (24 MAR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0300 INCHES
 BREF = 39.8490 INCHES ZMRP = .0300 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.1650 ORBINC = .5300
 RUDDER = .0000 ELEVON = .0000
 RUDFLR = .0000

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.130	X/LNP	.250	.500	.750
PHI					
		.000	-.2260	-.2270	-.2280
		90.000	-.2270	-.2220	-.2280
		135.000	-.2730	-.2360	-.2380
		180.000	-.1180	-.0170	-.2450
		225.000	-.2670	-.2490	-.2320
		270.000	-.2380	-.2340	-.2310
PHI					
		.000	-.2240	-.2230	-.2250
		90.000	-.2250	-.2230	-.2250
		135.000	-.2740	-.2350	-.2410
		180.000	-.1670	-.0720	-.2400
		225.000	-.2550	-.2450	-.2280
		270.000	-.2330	-.2290	-.2270
PHI					
		.000	-.2280	-.2280	-.2300
		90.000	-.2300	-.2310	-.2300
		135.000	-.2590	-.2360	-.2400
		180.000	-.0350	-.0800	-.2400
		225.000	-.2490	-.2460	-.2330
		270.000	-.2340	-.2310	-.2300
PHI					
		.000	-.2210	-.2210	-.2270
		90.000	-.2310	-.2280	-.2280
		135.000	-.2470	-.2510	-.2280
		180.000	-.0830	-.0130	-.2410
		225.000	-.2760	-.2420	-.2390
		270.000	-.2240	-.2220	-.2220
PHI					
		.000	-.2220	-.2220	-.2290
		90.000	-.2340	-.2310	-.2290
		135.000	-.2680	-.2300	-.2290
		180.000	-.0590	-.0320	-.2450
		225.000	-.2780	-.2410	-.2430

MACH (1) = 1.555 BETAT (2) = -6.150

MACH (1) = 1.555 BETAT (3) = -3.070

MACH (1) = 1.555 BETAT (4) = 5.030

MACH (1) = 1.555 BETAT (5) = 7.050

(R80008)

DATE 23 SEP 73
 TABULATED PRESSURE DATA - 1A98
 AMES 97-717 1A9 OSA + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE		DEPENDENT VARIABLE CP			
MACH (1) = 1.555	BETAT (5) = 7.050	X/LNF	.250	.500	.750
		PHI			
		270.000	-.2270	-.2230	-.2220
		X/LNF	.250	.500	.750
		PHI			
		90.000	-.2210	-.2220	
		135.000	-.2360	-.2310	-.2310
		180.000	-.2550	-.2540	-.2310
		225.000	-.0240	-.0470	-.2450
		270.000	-.2850	-.2460	-.2360
		PHI	-.2280	-.2210	-.2150
		X/LNF	.250	.500	.750
		PHI			
		90.000	-.1620	-.1650	
		135.000	-.1710	-.1640	-.1680
		180.000	-.1350	-.1470	-.1680
		225.000	-.0440	-.0840	-.1830
		270.000	-.2110	-.1940	-.1700
		PHI	-.1740	-.1670	-.1650
		X/LNF	.250	.500	.750
		PHI			
		90.000	-.1660	-.1720	
		135.000	-.1760	-.1710	-.1660
		180.000	-.1610	-.1730	-.1750
		225.000	-.0230	-.0350	-.1850
		270.000	-.2180	-.1830	-.1870
		PHI	-.1780	-.1740	-.1680
		X/LNF	.250	.500	.750
		PHI			
		90.000	-.1680	-.1710	
		135.000	-.1760	-.1720	-.1680
		180.000	-.1870	-.1810	-.1760
		225.000	-.0980	-.0270	-.1830
		270.000	-.2140	-.1780	-.1860
		PHI	-.1760	-.1750	-.1680
		X/LNF	.250	.500	.750
		PHI			
		90.000	-.1730	-.1760	
		135.000	-.1820	-.1780	-.1750
		180.000	-.2210	-.1890	-.1920
		225.000	-.0450	-.0270	-.1850
		270.000	-.2140	-.1920	-.1890

SECTION (2) MPS NOZZLE

MACH (2) = 2.000 BETAT (3) = -4.230

MACH (2) = 2.000 BETAT (4) = 3.920

(RBC004)

DATE 21 SEP 1968
 CALCULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 OSA + S3 + T9 UPPER MFS NOZZLE

SECTION (1) MFS NOZZLE		DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (4) = 3.920	X/LNF	.250
		PHI	.500
		270.000	-.1800
			-.1770
			-.1750
MACH (2) = 2.000	BETAT (5) = 5.960	X/LNF	.250
		PHI	.500
		90.000	-.1760
		135.000	-.1800
		180.000	-.1810
		225.000	-.1810
		270.000	-.1810
			-.1790
			-.1930
			-.1960
			-.1980
			-.1980
			-.1740
MACH (2) = 2.000	BETAT (6) = 8.000	X/LNF	.250
		PHI	.500
		90.000	-.1680
		135.000	-.1780
		180.000	-.1770
		225.000	-.1770
		270.000	-.1840
			-.1840
			-.1950
			-.1970
			-.1680

(RBOC19) (24 MAY 73)

TABULATED PRESSURE DATA - 1A9B
 AMES 97-707 1A9 O2A + S3 + T9 UPPER MPS NOZZLE

DATE 21 SEP 73

REFERENCE DATA

SREF = 2.4210 SQ.FT. YMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0392 SCALE

PARAMETRIC DATA

ALPHAT = -6.0000 ORBINC = .9000
 RUDDER = .0000 ELEVON = .0000
 RUDFLR = .0000

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -6.160	X/LNF	.250	.500	.750
PHI					
.000					
90.000 -0.2200 -0.2198					
135.000 -0.2190 -0.2160 -0.2170					
180.000 -0.2730 -0.2230 -0.2340					
225.000 -0.1230 -0.0040 -0.2330					
270.000 -0.2580 -0.2420 -0.2210					
.000					
90.000 -0.2170 -0.2160					
135.000 -0.2750 -0.2300 -0.2370					
180.000 -0.0530 -0.0730 -0.2370					
225.000 -0.2480 -0.2440 -0.2220					
270.000 -0.2240 -0.2220 -0.2190					

MACH (1) = 1.555 BETAT (2) = -6.170

MACH (1) = 1.555 BETAT (3) = -4.160

MACH (1) = 1.555 BETAT (4) = 3.640

MACH (1) = 1.555 BETAT (5) = 5.690

X/LNF	.250	.500	.750
PHI			
.000			
90.000 -0.2210 -0.2210			
135.000 -0.2200 -0.2220 -0.2230			
180.000 -0.2730 -0.2290 -0.2340			
225.000 -0.1410 -0.0470 -0.2340			
270.000 -0.2450 -0.2460 -0.2280			
.000			
90.000 -0.2210 -0.2210			
135.000 -0.2300 -0.2270 -0.2270			
180.000 -0.2430 -0.2490 -0.2270			
225.000 -0.0680 -0.0130 -0.2370			
270.000 -0.2680 -0.2330 -0.2330			
.000			
90.000 -0.2210 -0.2210			
135.000 -0.2300 -0.2220 -0.2210			
180.000 -0.2490 -0.2510 -0.2300			
225.000 -0.0670 -0.0110 -0.2300			
270.000 -0.2820 -0.2380 -0.2410			

(RBOJ09)

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1498
 AMCS 97-707 IA9 OSA + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZ		DEPENDENT VARIABLE CP	
MACH (1) = 1.555	BETAT (5) = 5.690	X/LNF	.250 .900 .750
		PHI	270.000 -0.2190 -0.2160 -0.2160
MACH (1) = 1.555	BETAT (6) = 7.740	X/LNF	.250 .500 .750
		PHI	.000 -0.2180 -0.2160
			90.000 -0.2290 -0.2260 -0.2210
			135.000 -0.2660 -0.2380 -0.2210
			180.000 -0.0430 -0.0620 -0.2370
			225.000 -0.2790 -0.2340 -0.2350
			270.000 -0.2220 -0.2180 -0.2120
MACH (2) = 2.000	BETAT (1) = -6.340	X/LNF	.250 .500 .750
		PHI	.000 -0.1530 -0.1560
			90.000 -0.1630 -0.1560 -0.1480
			135.000 -0.1240 -0.1430 -0.110
			180.000 .0400 .0630 -0.1720
			225.000 -0.1970 -0.1890 -0.1650
			270.000 -0.1630 -0.1590 -0.1560
MACH (2) = 2.000	BETAT (2) = -6.300	X/LNF	.250 .500 .750
		PHI	.000 -0.1610 -0.1630
			90.000 -0.1720 -0.1650 -0.1580
			135.000 -0.1370 -0.1680 -0.1720
			180.000 .0570 .0380 -0.1770
			225.000 -0.2060 -0.1780 -0.1830
			270.000 -0.1700 -0.1670 -0.1610
MACH (2) = 2.000	BETAT (3) = -4.250	X/LNF	.250 .500 .750
		PHI	.000 -0.1630 -0.1670
			90.000 -0.1700 -0.1680 -0.1620
			135.000 -0.1710 -0.1760 -0.1720
			180.000 .0480 .0070 -0.1720
			225.000 -0.2000 -0.1730 -0.1820
			270.000 -0.1710 -0.1690 -0.1630
MACH (2) = 2.000	BETAT (4) = 3.930	X/LNF	.250 .500 .750
		PHI	.000 -0.1670 -0.1700
			90.000 -0.1810 -0.1750 -0.1710
			135.000 -0.2200 -0.1880 -0.1870
			180.000 .0090 .0290 -0.1800
			225.000 -0.1920 -0.1900 -0.1880

(R800J9)

DATE 21 SEP 73
TABULATED PRESSURE DATA - 1A98
AMES 97-707 1A9 C8A + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE		DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (4) = 3.930	X/LNP	.250 .500 .750
		PMI	270.000 -.1780 -.1740 -.1650
MACH (2) = 2.000	BETAT (5) = 8.020	X/LNP	.250 .500 .750
		PMI	.000 -.1600 -.1650
			90.000 -.1750 -.1670 -.1660
			135.000 -.2120 -.1910 -.1760
			180.000 .0760 .0680 -.1880
			225.000 -.1390 -.1780 -.1920
			270.000 -.1780 -.1670 -.1600

DATE 21 SEP 77

COMPUTED PRESSURE DATA - IA98
 ARES 97-707 1A9 C2A + S3 + T9 UPPER MPS NOZZLE

(RBC10) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = 0.0000 INCHES
 BREF = 39.8490 INCHES ZMRP = 0.0000 INCHES
 SCALE = 0.0300 SCALE

PARAMETRIC DATA

ALPHAT = -0.0000 ORBINC = 0.0000
 RUDDER = 0.0000 ELEWIN = 0.0000
 RUFLFL = 0.0000

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE

MACH (1) = 1.555 BETAT (1) = -0.2000

X/LNP	.250	.500	.750
PHI			
.000	-.2100	-.2120	
90.000	-.2130	-.2160	-.2190
135.000	-.2700	-.2150	-.2300
180.000	-.0880	-.0400	-.2290
225.000	-.2450	-.2370	-.2110
270.000	-.2180	-.2140	-.2100

MACH (1) = 1.555 BETAT (2) = -6.2000

X/LNP	.250	.500	.750
PHI			
.000	-.2110	-.2070	
90.000	-.2120	-.2160	-.2090
135.000	-.2690	-.2200	-.2300
180.000	-.0300	-.0560	-.2300
225.000	-.2400	-.2390	-.2110
270.000	-.2140	-.2120	-.2090

MACH (1) = 1.555 BETAT (3) = -4.2000

X/LNP	.250	.500	.750
PHI			
.000	-.2140	-.2160	
90.000	-.2150	-.2150	-.2170
135.000	-.2720	-.2260	-.2320
180.000	-.0780	-.0760	-.2320
225.000	-.2400	-.2430	-.2200
270.000	-.2180	-.2190	-.2180

MACH (1) = 1.555 BETAT (4) = 3.6500

X/LNE	.250	.500	.750
PHI			
.000	-.2130	-.2110	
90.000	-.2190	-.2180	-.2170
135.000	-.2350	-.2420	-.2170
180.000	-.0510	-.0250	-.2300
225.000	-.2670	-.2320	-.2320
270.000	-.2100	-.2140	-.2140

MACH (1) = 1.555 BETAT (5) = 5.7100

X/LNP	.250	.500	.750
PHI			
.000	-.2100	-.2090	
90.000	-.2180	-.2150	-.2130
135.000	-.2410	-.2460	-.2120
180.000	-.0410	-.0500	-.2320
225.000	-.2840	-.2340	-.2360

SECTION (1) MPS NOZZLE

AMES 97-707 1A9 O2A + S3 + T9 UPPER MPS NOZZLE

(R00010)

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 5.710

X/LNF PHI	.250	.500	.750
270.000	-.2140	-.2140	-.2110

MACH (1) = 1.555 BETAT (6) = 7.770

X/LNF PHI	.250	.500	.750
.000	-.2100	-.2100	
90.000	-.2220	-.2190	-.2120
135.000	-.2570	-.2360	-.2130
180.000	-.0310	-.0510	-.2310
225.000	-.2790	-.2260	-.2300
270.000	-.2140	-.2140	-.2060

MACH (2) = 2.000 BETAT (1) = -6.390

X/LNF PHI	.250	.500	.750
.000	-.1490	-.1520	
90.000	-.1630	-.1540	-.1450
135.000	-.0980	-.1490	-.1630
180.000	-.0560	-.0020	-.1680
225.000	-.1990	-.1750	-.1690
270.000	-.1640	-.1560	-.1510

MACH (2) = 2.000 BETAT (2) = -6.330

X/LNF PHI	.250	.500	.750
.000	-.1590	-.1610	
90.000	-.1710	-.1690	-.1570
135.000	-.1140	-.1730	-.1750
180.000	-.0820	-.0220	-.1750
225.000	-.2050	-.1780	-.1890
270.000	-.1710	-.1670	-.1600

MACH (2) = 2.000 BETAT (3) = -4.280

X/LNF PHI	.250	.500	.750
.000	-.1610	-.1640	
90.000	-.1690	-.1660	-.1590
135.000	-.1580	-.1780	-.1730
180.000	-.1890	-.0230	-.1730
225.000	-.2000	-.1690	-.1820
270.000	-.1700	-.1670	-.1610

MACH (2) = 2.000 BETAT (4) = -.170

X/LNF PHI	.250	.500	.750
.000	-.1550	-.1560	
90.000	-.1580	-.1570	-.1560
135.000	-.2210	-.1650	-.1750
180.000	-.1510	-.0530	-.1640
225.000	-.2000	-.1710	-.1700

AMES 97-717 IA9 O2A + S3 + T9 UPPER MFS NOZZLE

(RBC010)

SECTION (1) MFS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (4) = -0.170
 X/LNP .250 .500 .750
 PHI 270.000 -0.1590 -0.1630 -0.1540

MACH (2) = 2.000 BETAT (5) = 3.940
 X/LNP .250 .500 .750
 PHI .000
 90.000 -0.1630 -0.1660
 135.000 -0.1780 -0.1720 -0.1670
 180.000 -0.2190 -0.1870 -0.1870
 225.000 .1220 .0390 -0.1750
 270.000 -0.1780 -0.1950 -0.1870
 270.000 -0.1770 -0.1740 -0.1630

MACH (2) = 2.000 BETAT (6) = 5.990
 X/LNP .250 .500 .750
 PHI .000
 90.000 -0.1630 -0.1690
 135.000 -0.1780 -0.1710 -0.1690
 180.000 -0.2210 -0.1900 -0.1800
 225.000 .0980 -0.0210 -0.1770
 270.000 -0.1320 -0.2050 -0.1960
 270.000 -0.1870 -0.1750 -0.1680

MACH (2) = 2.000 BETAT (7) = 6.050
 X/LNP .250 .500 .750
 PHI .000
 90.000 -0.1540 -0.1580
 135.000 -0.1640 -0.1610 -0.1580
 180.000 -0.2120 -0.1850 -0.1710
 225.000 .1070 .0420 -0.1790
 270.000 -0.1200 -0.1790 -0.1870
 270.000 -0.1760 -0.1640 -0.1550

AMES 97-707 IA9 O2A + S3 + T9 UPPER MPS NOZZLE

REFERENCE DATA

SREF = 2.4210 90.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.0000 ORBINC = .500
 RUDDER = -15.0000 ELEVON = .0000
 RUDFLR = .0000

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.40°

X/LNP	.250	.500	.750
PHI			
.000	-.2190	-.2180	-.2150
90.000	-.2230	-.2180	-.2150
135.000	-.2740	-.2270	-.2430
180.000	-.0790	-.0290	-.2400
225.000	-.2590	-.2520	-.2210
270.000	-.2270	-.2240	-.2200

MACH (1) = 1.555 BETAT (2) = -6.360

X/LNP	.250	.500	.750
PHI			
.000	-.2170	-.2140	-.2160
90.000	-.2190	-.2170	-.2160
135.000	-.2760	-.2280	-.2410
180.000	-.0270	-.0770	-.2370
225.000	-.2490	-.2500	-.2150
270.000	-.2220	-.2170	-.2150

MACH (1) = 1.555 BETAT (3) = -4.310

X/LNP	.250	.500	.750
PHI			
.000	-.2230	-.2210	-.2250
90.000	-.2220	-.2240	-.2250
135.000	-.2850	-.2340	-.2410
180.000	-.1420	-.0710	-.2400
225.000	-.2490	-.2500	-.2270
270.000	-.2250	-.2270	-.2230

MACH (1) = 1.555 BETAT (4) = -2.180

X/LNP	.250	.500	.750
PHI			
.000	-.2430	-.2440	-.2460
90.000	-.2490	-.2500	-.2460
135.000	-.2770	-.2600	-.2620
180.000	-.0890	-.0370	-.2600
225.000	-.2710	-.2560	-.2560
270.000	-.2460	-.2470	-.2430

MACH (1) = 1.555 BETAT (5) = 3.940

X/LNP	.250	.500	.750
PHI			
.000	-.2190	-.2160	-.2230
90.000	-.2260	-.2260	-.2230
135.000	-.2450	-.2300	-.2260
180.000	-.0360	-.0100	-.2370
225.000	-.2750	-.2360	-.2360

AMES 97-7-7 1A9 ORA * S3 * T9 UPPER WFS NOZZLE

(RB0011)

SECTION : 3) WFS NOZZL

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.940 X/LNF .250 .500 .750
PHI

270.000	-.2170	-.2180	-.2180
.100	-.2190	-.2180	
90.000	-.2270	-.2260	-.2220
135.000	-.2580	-.2600	-.2250
180.000	-.0060	-.0000	-.2430
225.000	-.2900	-.2450	-.2490
270.000	-.2260	-.2230	-.2170

MACH (1) = 1.555 BETAT (7) = 6.060 X/LNF .250 .500 .750
PHI

.100	-.2190	-.2170	
90.000	-.2320	-.2280	-.2230
135.000	-.2760	-.2490	-.2240
180.000	.0020	-.0660	-.2410
225.000	-.2820	-.2320	-.2410
270.000	-.2210	-.2210	-.2120

MACH (2) = 2.000 BETAT (1) = -6.390 X/LNF .250 .500 .750
PHI

.100	-.1530	-.1570	
90.000	-.1770	-.1580	-.1500
135.000	-.1680	-.1580	-.1710
180.000	.0660	-.1480	-.1720
225.000	-.2100	-.1780	-.1740
270.000	-.1650	-.1590	-.1540

MACH (2) = 2.000 BETAT (2) = -6.340 X/LNF .250 .500 .750
PHI

.100	-.1610	-.1640	
90.000	-.1740	-.1680	-.1600
135.000	-.1100	-.1600	-.1820
180.000	.0860	-.1490	-.1760
225.000	-.2180	-.1810	-.1860
270.000	-.1720	-.1690	-.1620

MACH (2) = 2.000 BETAT (3) = -4.290 X/LNF .250 .500 .750
PHI

.100	-.1630	-.1650	
90.000	-.1720	-.1690	-.1610
135.000	-.1510	-.1640	-.1780
180.000	.1890	.0320	-.1740
225.000	-.2020	-.1710	-.1850

DATE 21 SEP 73

TABLULATED PRESSURE DATA - 1A98

(RBC011)

AKES 97-797 1A8 O2A + S3 + T9 UPPER MPS NOZZLE

SECTION : 1)MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.290

X/LNP	PHI	.250	.500	.750
270.000		-.1710	-.1690	-.1630

MACH (2) = 2.000 BETAT (4) = -.180

X/LNP	PHI	.250	.500	.750
90.000		-.1570	-.1590	
90.000		-.1580	-.1570	-.1590
135.000		-.2280	-.1650	-.1760
180.000		.1590	.0800	-.1690
225.000		-.2010	-.1700	-.1710
270.000		-.1600	-.1590	-.1590

MACH (2) = 2.000 BETAT (5) = 3.990

X/LNP	PHI	.250	.500	.750
90.000		-.1640	-.1670	
90.000		-.1750	-.1750	-.1670
135.000		-.2200	-.1860	-.1860
180.000		.1370	.0190	-.1740
225.000		-.1670	-.1970	-.1910
270.000		-.1770	-.1710	-.1650

MACH (2) = 2.000 BETAT (6) = 5.980

X/LNP	PHI	.250	.500	.750
90.000		-.1660	-.1700	
90.000		-.1790	-.1740	-.1700
135.000		-.2240	-.2040	-.1830
180.000		.1100	-.1450	-.1740
225.000		-.1220	-.2070	-.1990
270.000		-.1910	-.1800	-.1710

MACH (2) = 2.000 BETAT (7) = 8.040

X/LNP	PHI	.250	.500	.750
90.000		-.1590	-.1610	
90.000		-.1660	-.1630	-.1620
135.000		-.2180	-.1880	-.1720
180.000		.1350	.0110	-.1780
225.000		-.1950	-.1830	-.1910
270.000		-.1830	-.1690	-.1600

AMES 97-707 1A9 02A + S3 + T9 UPPER MPS NOZZLE

(RBO012) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. NMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHAT = -4.0000 ORBINC = .5000
 RUDDER = -15.0000 ELEVON = .0000
 RUDFLR = .0000

PARAMETRIC DATA

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -6.350	X/LNP	.250	.500	.750
PHI					
.000					
90.000 -0.2310 -0.2300					
135.000 -0.2330 -0.2270 -0.2310					
180.000 -0.2770 -0.2420 -0.2450					
225.000 -0.1160 .0030 -0.2510					
270.000 -0.2740 -0.2590 -0.2360					
.0300					
90.000 -0.2430 -0.2360 -0.2390					

MACH (1) = 1.555 BETAT (2) = -6.310

X/LNP	.250	.500	.750
PHI			
.000			
90.000 -0.2260 -0.2250			
135.000 -0.2290 -0.2290 -0.2280			
180.000 -0.2790 -0.2390 -0.2480			
225.000 -0.1670 -0.0510 -0.2480			
270.000 -0.2610 -0.2520 -0.2310			
.0300			
90.000 -0.2350 -0.2320 -0.2300			

MACH (1) = 1.555 BETAT (3) = -4.260

X/LNP	.250	.500	.750
PHI			
.000			
90.000 -0.2330 -0.2310			
135.000 -0.2330 -0.2330 -0.2340			
180.000 -0.2780 -0.2420 -0.2470			
225.000 -0.1650 -0.0840 -0.2480			
270.000 -0.2550 -0.2540 -0.2360			
.0300			
90.000 -0.2390 -0.2390 -0.2350			

MACH (1) = 1.555 BETAT (4) = -3.170

X/LNP	.250	.500	.750
PHI			
.000			
90.000 -0.2430 -0.2430			
135.000 -0.2470 -0.2470 -0.2430			
180.000 -0.2630 -0.2560 -0.2550			
225.000 .0220 -0.0800 -0.2560			
270.000 -0.2630 -0.2530 -0.2520			
.0300			
90.000 -0.2450 -0.2440 -0.2410			

MACH (1) = 1.555 BETAT (5) = 3.930

X/LNP	.250	.500	.750
PHI			
.000			
90.000 -0.2270 -0.2260			
135.000 -0.2370 -0.2330 -0.2340			
180.000 -0.2530 -0.2510 -0.2360			
225.000 -0.0840 -0.0530 -0.2430			
270.000 -0.2690 -0.2410 -0.2380			

AMES 97-707 1A9 ORA + S3 + T9 UPPER MPS NOZZLE

(R9C012)

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (5) = 3.930	X/LNP	.250	.500	.750
		PHI			
		270.000	-.2270	-.2270	-.2270
MACH (1) = 1.555	BETAT (6) = 5.980	X/LNP	.250	.500	.750
		PHI			
		.000	-.2280	-.2290	
		90.000	-.2390	-.2350	-.2350
		135.000	-.2670	-.2650	-.2390
		180.000	-.0450	-.0430	-.2530
		225.000	-.2580	-.2500	-.2520
		270.000	-.2330	-.2290	-.2280
MACH (1) = 1.555	BETAT (7) = 8.020	X/LNP	.250	.500	.750
		PHI			
		.000	-.2300	-.2290	
		90.000	-.2400	-.2370	-.2350
		135.000	-.2810	-.2590	-.2380
		180.000	-.0330	-.0480	-.2520
		225.000	-.2880	-.2460	-.2480
		270.000	-.2310	-.2280	-.2240
MACH (2) = 2.000	BETAT (1) = -0.320	X/LNP	.250	.500	.750
		PHI			
		.000	-.1630	-.1680	
		90.000	-.1720	-.1640	-.1620
		135.000	-.1400	-.1540	-.1710
		180.000	.0120	.0480	-.1840
		225.000	-.2030	-.1940	-.1750
		270.000	-.1720	-.1690	-.1670
MACH (2) = 2.000	BETAT (2) = -0.280	X/LNP	.250	.500	.750
		PHI			
		.000	-.1750	-.1770	
		90.000	-.1830	-.1770	-.1710
		135.000	-.1570	-.1750	-.1850
		180.000	.0270	-.0570	-.1870
		225.000	-.2150	-.1890	-.1930
		270.000	-.1810	-.1790	-.1750
MACH (2) = 2.000	BETAT (3) = -0.240	X/LNP	.250	.500	.750
		PHI			
		.000	-.1730	-.1760	
		90.000	-.1800	-.1750	-.1710
		135.000	-.1860	-.1830	-.1820
		180.000	-.0980	-.0300	-.1840
		225.000	-.2070	-.1830	-.1940

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 CSA + S3 + T9 UPPER MPS NOZZLE

(R0012)

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE

MACH (2) = 2.000 BETAT (3) = -4.240
 X/LNP .250 .500 .750
 PHI
 270.000 -.1780 -.1780 -.1720

MACH (2) = 2.000 BETAT (4) = -3.170
 X/LNP .250 .500 .750
 PHI
 .000 -.1730 -.1740
 90.000 -.1760 -.1740 -.1740
 135.000 -.2370 -.1820 -.1910
 180.000 .0890 .0120 -.1800
 225.000 -.2110 -.1880 -.1840
 270.000 -.1760 -.1760 -.1730

MACH (2) = 2.000 BETAT (5) = 3.920
 X/LNP .250 .500 .750
 PHI
 .000 -.1760 -.1840
 90.000 -.1850 -.1820 -.1790
 135.000 -.2260 -.1940 -.1950
 180.000 .0510 .0420 -.1880
 225.000 -.2010 -.1970 -.1940
 270.000 -.1860 -.1820 -.1740

MACH (2) = 2.000 BETAT (6) = 5.960
 X/LNP .250 .500 .750
 PHI
 .000 -.1740 -.1780
 90.000 -.1840 -.1840 -.1780
 135.000 -.2250 -.1950 -.1910
 180.000 .0470 -.0190 -.1940
 225.000 -.1820 -.2120 -.2140
 270.000 -.1880 -.1820 -.1730

MACH (2) = 2.000 BETAT (7) = 6.010
 X/LNP .250 .500 .750
 PHI
 .000 -.1680 -.1710
 90.000 -.1760 -.1750 -.1730
 135.000 -.2100 -.2120 -.1790
 180.000 .0440 .1150 -.1890
 225.000 -.1490 -.1830 -.1930
 270.000 -.1790 -.1740 -.1630

(R80013) (24 MAY 73)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

ANES 97-707 IAS OBA + S3 + T9 UPPER MPS NOZZLE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 26.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BRP = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0316 SCALE

SECTION (1) MPS NOZZLE

MACH (1) = 1.955 BETAT (1) = -8.310

DEPENDENT VARIABLE CP

X/LNF	.250	.500	.750
PHI			
.000	-.2460	-.2450	
90.000	-.2490	-.2450	-.2470
135.000	-.2940	-.2650	-.2535
180.000	-.1230	-.0550	-.2630
225.000	-.2790	-.2680	-.2520
270.000	-.2570	-.2520	-.2500

MACH (1) = 1.955 BETAT (2) = -6.280

X/LNF	.250	.500	.750
PHI			
.000	-.2430	-.2450	
90.000	-.2460	-.2430	-.2450
135.000	-.2780	-.2670	-.2580
180.000	-.0370	-.0640	-.2640
225.000	-.2710	-.2740	-.2490
270.000	-.2510	-.2480	-.2480

MACH (1) = 1.955 BETAT (3) = -4.240

X/LNF	.250	.500	.750
PHI			
.000	-.2380	-.2380	
90.000	-.2390	-.2410	-.2410
135.000	-.2670	-.2480	-.2470
180.000	-.1110	-.1280	-.2510
225.000	-.2640	-.2510	-.2440
270.000	-.2470	-.2430	-.2430

MACH (1) = 1.955 BETAT (4) = -1.140

X/LNF	.250	.500	.750
PHI			
.000	-.2420	-.2430	
90.000	-.2470	-.2460	-.2440
135.000	-.2540	-.2590	-.2510
180.000	-.1480	-.1340	-.2550
225.000	-.2610	-.2530	-.2470
270.000	-.2460	-.2430	-.2410

MACH (1) = 1.955 BETAT (5) = 3.940

X/LNF	.250	.500	.750
PHI			
.000	-.2350	-.2330	
90.000	-.2440	-.2410	-.2410
135.000	-.2590	-.2520	-.2440
180.000	-.1070	-.1090	-.2490
225.000	-.2710	-.2510	-.2410

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

DATE 21 SEP 73

TABLATED PRESSURE DATA - 1A98
 ARES 97-707 1A9 OCA + S3 + T9 UPPER MPS NOZZLE

(RBC013)

SECTION : 11MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.940
 X/LNP .250 .500 .750
 PHI 270.000 -0.2340 -0.2330 -0.2340

MACH (1) = 1.555 BETAT (6) = 5.990
 X/LNP .250 .500 .750
 PHI .000 -0.2370 -0.2380
 90.000 -0.2470 -0.2440 -0.2460
 135.000 -0.2700 -0.2740 -0.2500
 180.000 -0.0270 -0.0440 -0.2590
 225.000 -0.2840 -0.2590 -0.2490
 270.000 -0.2400 -0.2370 -0.2360

MACH (1) = 1.555 BETAT (7) = 8.030
 X/LNP .250 .500 .750
 PHI .000 -0.2460 -0.2450
 90.000 -0.2560 -0.2540 -0.2530
 135.000 -0.2860 -0.2720 -0.2550
 180.000 -0.0380 -0.0150 -0.2670
 225.000 -0.2950 -0.2670 -0.2570
 270.000 -0.2490 -0.2430 -0.2420

MACH (2) = 2.000 BETAT (1) = -8.300
 X/LNP .250 .500 .750
 PHI .000 -0.1720 -0.1720
 90.000 -0.1750 -0.1710 -0.1740
 135.000 -0.1840 -0.1840 -0.1840
 180.000 -0.1690 -0.0710 -0.1910
 225.000 -0.1920 -0.1890 -0.1750
 270.000 -0.1780 -0.1750 -0.1710

MACH (2) = 2.000 BETAT (2) = -6.260
 X/LNP .250 .500 .750
 PHI .000 -0.1820 -0.1840
 90.000 -0.1860 -0.1820 -0.1810
 135.000 -0.1960 -0.1880 -0.1880
 180.000 -0.0350 -0.0460 -0.1960
 225.000 -0.2130 -0.2050 -0.1880
 270.000 -0.1880 -0.1860 -0.1830

MACH (2) = 2.000 BETAT (3) = -4.220
 X/LNP .250 .500 .750
 PHI .000 -0.1830 -0.1850
 90.000 -0.1890 -0.1850 -0.1850
 135.000 -0.2060 -0.1980 -0.1910
 180.000 -0.0360 -0.0520 -0.2020
 225.000 -0.2140 -0.1940 -0.2040

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

(RBC013)

AMES 97-707 1A9 02A + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.220
 X/LNP .250 .500 .750
 PHI 270.000 -.1900 -.1890 -.1840

MACH (2) = 2.000 BETAT (4) = -3.140
 X/LNP .250 .500 .750
 PHI 90.000 -.1760 -.1790
 90.000 -.1810 -.1790 -.1790
 135.000 -.2230 -.1880 -.1940
 180.000 .0360 -.0030 -.1860
 225.000 -.2080 -.1930 -.1860
 270.000 -.1810 -.1840 -.1750

MACH (2) = 2.000 BETAT (5) = 3.930
 X/LNP .250 .500 .750
 PHI 90.000 -.1790 -.1810
 90.000 -.1870 -.1830 -.1810
 135.000 -.2200 -.1940 -.1920
 180.000 -.0290 .0390 -.1950
 225.000 -.2180 -.1960 -.1910
 270.000 -.1850 -.1840 -.1760

MACH (2) = 2.000 BETAT (6) = 5.980
 X/LNP .250 .500 .750
 PHI 90.000 -.1750 -.1760
 90.000 -.1810 -.1790 -.1790
 135.000 -.2090 -.1980 -.1810
 180.000 -.0310 .0730 -.1940
 225.000 -.2110 -.1850 -.1930
 270.000 -.1820 -.1760 -.1720

MACH (2) = 2.000 BETAT (7) = 8.020
 X/LNP .250 .500 .750
 PHI 90.000 -.1770 -.1790
 90.000 -.1860 -.1830 -.1830
 135.000 -.2020 -.1950 -.1850
 180.000 .0160 .0130 -.1980
 225.000 -.2010 -.1910 -.2040
 270.000 -.1920 -.1830 -.1750

DATE 21 SEP 73

ADJUSTED PRESSURE DATA - 1A98
 AMES 97-737 1A9 02A + S3 + T9 UPPER MPS NOZZLE

(R80014) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 26.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .14000 INCHES
 BREF = 39.8490 INCHES ZMRP = .00000 INCHES
 SCALE = .03000 SCALE

PARAMETRIC DATA

ALPHAT = 4.0000 ORBITNC = .5000
 RUDDER = -15.0000 ELEVON = .0000
 RUDFLR = .0000

SECTION (1) MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.300

X/LNP	.250	.500	.750
PHI	.000	-.2600	-.2610
90.000	-.2640	-.2670	-.2630
135.000	-.3060	-.2860	-.2710
180.000	-.1400	-.2080	-.2710
225.000	-.2900	-.2740	-.2640
270.000	-.2680	-.2630	-.2630

MACH (1) = 1.555 BETAT (2) = -6.260

X/LNP	.250	.500	.750
PHI	.000	-.2570	-.2580
90.000	-.2590	-.2580	-.2600
135.000	-.2870	-.2810	-.2650
180.000	-.1020	-.1010	-.2750
225.000	-.2830	-.2810	-.2650
270.000	-.2660	-.2620	-.2610

MACH (1) = 1.555 BETAT (3) = -4.220

X/LNP	.250	.500	.750
PHI	.000	-.2510	-.2510
90.000	-.2520	-.2510	-.2520
135.000	-.2730	-.2640	-.2590
180.000	-.1690	-.1420	-.2630
225.000	-.2710	-.2690	-.2570
270.000	-.2560	-.2540	-.2530

MACH (1) = 1.555 BETAT (4) = -.120

X/LNP	.250	.500	.750
PHI	.000	-.2360	-.2350
90.000	-.2400	-.2390	-.2390
135.000	-.2380	-.2330	-.2410
180.000	-.1820	-.1750	-.2410
225.000	-.2470	-.2480	-.2410
270.000	-.2410	-.2380	-.2360

MACH (1) = 1.555 BETAT (5) = 3.950

X/LNP	.250	.500	.750
PHI	.000	-.2440	-.2430
90.000	-.2510	-.2490	-.2510
135.000	-.2700	-.2630	-.2510
180.000	-.1570	-.1620	-.2570
225.000	-.2800	-.2800	-.2490

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

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AMES 97-707 1A9 ORA - S3 + T9 UPPER MPS NOZZLE

(R80014)

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.950
X/LNF .250 .500 .750
PHI 270.000 - .2480 - .2450 - .2450

MACH (1) = 1.555 BETAT (6) = 6.000
X/LNF .250 .500 .750
PHI .000 - .2480 - .2510
90.000 - .2570 - .2540 - .2550
135.000 - .2800 - .2750 - .2570
180.000 - .0550 - .0770 - .2630
225.000 - .2890 - .2720 - .2540
270.000 - .2500 - .2460 - .2460

MACH (1) = 1.555 BETAT (7) = 8.040
X/LNF .250 .500 .750
PHI .000 - .2570 - .2580
90.000 - .2680 - .2640 - .2640
135.000 - .2680 - .2770 - .2650
180.000 - .0660 - .0750 - .2730
225.000 - .3050 - .2820 - .2630
270.000 - .2590 - .2550 - .2540

MACH (2) = 2.000 BETAT (1) = -8.290
X/LNF .250 .500 .750
PHI .000 - .1800 - .1810
90.000 - .1940 - .1870 - .1860
135.000 - .1920 - .1830 - .1920
180.000 - .1240 - .0110 - .2100
225.000 - .2130 - .1930 - .1860
270.000 - .1890 - .1860 - .1810

MACH (2) = 2.000 BETAT (2) = -6.290
X/LNF .250 .500 .750
PHI .000 - .1860 - .1860
90.000 - .1900 - .1880 - .1870
135.000 - .2120 - .1910 - .1950
180.000 - .0960 - .0280 - .2010
225.000 - .2100 - .2000 - .1890
270.000 - .1910 - .1900 - .1860

MACH (2) = 2.000 BETAT (3) = -4.290
X/LNF .250 .500 .750
PHI .000 - .1880 - .1900
90.000 - .1920 - .1910 - .1890
135.000 - .2300 - .2020 - .1970
180.000 - .0920 - .0630 - .2040
225.000 - .2140 - .2000 - .2000

(R00014)

DATE 21 SEP 71

CALCULATED PRESSURE DATA - 1A9B

AMES 97-757 1A9 ORA + S3 + T9 UPPER MPS NOZZLE

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE

MACH (2) = 2.0000 BETAT (3) = -4.2000
 X/LNF .250 .500 .750
 PHI 270.000 -0.1950 -0.1930 -0.1880

MACH (2) = 2.0000 BETAT (4) = -1.1500
 X/LNF .000 .1800 .1840
 PHI 90.000 -0.1850 -0.1830 -0.1840
 135.000 -0.1910 -0.1970
 180.000 -0.1920
 225.000 -0.1980 -0.1940
 270.000 -0.1870 -0.1850 -0.1810

MACH (2) = 2.0000 BETAT (5) = 3.5000
 X/LNF .250 .500 .750
 PHI 90.000 -0.1880 -0.1940
 135.000 -0.1960 -0.1930 -0.1930
 180.000 -0.2240 -0.2140 -0.1970
 225.000 -0.1450 -0.2030
 270.000 -0.2350 -0.2130 -0.2120

MACH (2) = 2.0000 BETAT (6) = 5.9900
 X/LNF .250 .500 .750
 PHI 90.000 -0.1870 -0.1810
 135.000 -0.1880 -0.1870 -0.1860
 180.000 -0.2120 -0.1980 -0.1870
 225.000 -0.1790 -0.1800
 270.000 -0.2240 -0.1850 -0.1950

MACH (2) = 2.0000 BETAT (7) = 8.0000
 X/LNF .250 .500 .750
 PHI 90.000 -0.1910 -0.1930
 135.000 -0.2120 -0.1990 -0.1970
 180.000 -0.2150 -0.2070 -0.1980
 225.000 -0.1180 -0.0540 -0.2110
 270.000 -0.2140 -0.2140 -0.2100

(RUC015) (24 MAY '73)

PARAMETRIC DATA

ALPHAT = 6.1640 ORBINC = .500
 RUDDER = -15.1640 ELEVON = .1640
 RUDFLR = .1640

TABULATED PRESSURE DATA - 1A9B
 AMES 97-707 1A9 OZA + S3 + T9 UPPER MPS NOZZLE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0020 INCHES
 BREF = 39.8490 INCHES ZMRP = .0020 INCHES
 SCALE = .0300 SCALE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.320

X/LNP	.250	.500	.750
PHI			
.000	-.2600	-.2610	-.2610
90.000	-.2630	-.2630	-.2660
135.000	-.2930	-.2780	-.2710
180.000	-.1920	-.2180	-.2740
225.000	-.2870	-.2720	-.2650
270.000	-.2680	-.2650	-.2630

MACH (1) = 1.555 BETAT (2) = -6.280

X/LNP	.250	.500	.750
PHI			
.000	-.2580	-.2600	-.2620
90.000	-.2620	-.2610	-.2620
135.000	-.2910	-.2780	-.2670
180.000	-.1080	.410	-.2760
225.000	-.2840	-.2810	-.2660
270.000	-.2660	-.2630	-.2620

MACH (1) = 1.555 BETAT (3) = -4.230

X/LNP	.250	.500	.750
PHI			
.000	-.2490	-.2520	-.2510
90.000	-.2530	-.2520	-.2510
135.000	-.2720	-.2710	-.2570
180.000	-.1790	-.1370	-.2660
225.000	-.2740	-.2680	-.2590
270.000	-.2580	-.2560	-.2540

MACH (1) = 1.555 BETAT (4) = -.120

X/LNP	.250	.500	.750
PHI			
.000	-.2390	-.2390	-.2390
90.000	-.2440	-.2420	-.2410
135.000	-.2420	-.2550	-.2440
180.000	-.1890	-.1980	-.2430
225.000	-.2480	-.2340	-.2420
270.000	-.2450	-.2420	-.2410

MACH (1) = 1.555 BETAT (5) = 3.970

X/LNP	.250	.500	.750
PHI			
.000	-.2440	-.2430	-.2430
90.000	-.2510	-.2480	-.2490
135.000	-.2650	-.2650	-.2540
180.000	-.1680	-.1450	-.2540
225.000	-.2710	-.2590	-.2460

AMES 97-707 1A9 OZA + S3 + T9 UPPER MPS NOZZLE

(RB0015)

SECTION (1) MPS NOZZLE DEPENDENT VARIABLE CF

MACH (1) = 1.555 BETAT (5) = 3.970 X/LNP .250 .500 .750
PHI
270.000 -2.450 -2.420 -2.420

MACH (1) = 1.555 BETAT (6) = 6.030 X/LNP .250 .500 .750
PHI
.000 -2.520 -2.540
90.000 -2.600 -2.580 -2.580
135.000 -2.810 -2.730 -2.600
180.000 -3.100 -3.090 -2.670
225.000 -2.910 -2.730 -2.580
270.000 -2.540 -2.520 -2.550

MACH (1) = 1.555 BETAT (7) = 8.080 X/LNP .250 .500 .750
PHI
.000 -2.620 -2.630
90.000 -2.740 -2.710 -2.690
135.000 -2.880 -2.770 -2.710
180.000 -3.130 -3.030 -2.780
225.000 -3.000 -2.770 -2.720
270.000 -2.640 -2.620 -2.610

MACH (2) = 2.000 BETAT (1) = -6.260 X/LNP .250 .500 .750
PHI
.000 -1.870 -1.880
90.000 -1.940 -1.910 -1.910
135.000 -2.150 -1.910 -1.930
180.000 -2.100 -2.030 -2.010
225.000 -2.160 -2.030 -1.910
270.000 -1.910 -1.940 -1.870

MACH (2) = 2.000 BETAT (2) = -4.210 X/LNP .250 .500 .750
PHI
.000 -1.880 -2.050
90.000 -1.930 -2.060 -2.070
135.000 -2.220 -2.210 -2.110
180.000 -2.040 -2.010 -2.200
225.000 -2.210 -2.170 -2.140
270.000 -2.210 -2.090 -2.030

MACH (2) = 2.000 BETAT (3) = -1.130 X/LNP .250 .500 .750
PHI
.000 -1.840 -1.850
90.000 -1.870 -1.860 -1.870
135.000 -2.010 -1.890 -1.960
180.000 -1.850 -1.690 -1.950
225.000 -2.210 -2.030 -1.890

AMES 97-707 1A9 OEA + S3 + T9 UPPER MPS NOZZLE

(RBC015)

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -.130
 X/LNF .250 .500 .750
 PHI
 270.000 -.1680 -.1870 -.1680

MACH (2) = 2.000 BETAT (4) = 3.970
 X/LNF .250 .500 .750
 PHI
 .000 -.1870 -.1890
 90.000 -.1926 -.1920 -.1940
 135.000 -.2140 -.2090 -.1940
 180.000 -.0470 -.1040 -.2030
 225.000 -.2280 -.2120 -.2100
 270.000 -.1950 -.1920 -.1870

MACH (2) = 2.000 BETAT (5) = 6.020
 X/LNF .250 .500 .750
 PHI
 .000 -.1820 -.1680
 90.000 -.1900 -.1730 -.1730
 135.000 -.2030 -.1850 -.1750
 180.000 -.1190 -.0460 -.1680
 225.000 -.2110 -.1670 -.1820
 270.000 -.1770 -.1730 -.1670

MACH (2) = 2.000 BETAT (6) = 6.070
 X/LNF .250 .500 .750
 PHI
 .000 -.1880 -.1680
 90.000 -.1970 -.1940 -.1930
 135.000 -.2170 -.2030 -.1940
 180.000 -.0390 -.1240 -.2040
 225.000 -.2170 -.1920 -.2140
 270.000 -.2040 -.1930 -.1830

DATE 21 SEP 73
 (RBC016) (24 MAY 73)

TABLATED PRESSURE DATA - 1A9B
 AMES 37-707 1A9 OCA + S3 + T9 UPPER MPS NOZZLE

REFEREN. DATA
 SREF = 2.4210 SQ. FT.
 LREF = 39.8490 INCHES
 BREF = 39.8490 INCHES
 SCALE = .13360 SCALE

PARAMETRIC DATA
 ALPHAT = 8.1000
 RUDDER = -15.1000
 RUZFLR = .1000
 ORBINC = .5000
 ELEVON = .1000

SECTION (1) MPS NOZZLE

MACH (1) = 1.555 BETAT (1) = -0.350

DEPENDENT VARIABLE CP

X/LNF	.250	.300	.750
PHI			
.1000	-.2630	-.2640	
90.1000	-.2770	-.2680	-.2690
135.1000	-.2890	-.2700	-.2710
180.1000	-.2160	-.2410	-.2740
225.1000	-.2880	-.2680	-.2670
270.1000	-.2720	-.2670	-.2660

MACH (1) = 1.555 BETAT (2) = -0.290

X/LNF	.250	.300	.750
PHI			
.1000	-.2560	-.2590	
90.1000	-.2630	-.2630	-.2590
135.1000	-.2760	-.2660	-.2630
180.1000	-.1330	-.1630	-.2720
225.1000	-.2760	-.2710	-.2630
270.1000	-.2640	-.2610	-.2610

MACH (1) = 1.555 BETAT (3) = -0.240

X/LNF	.250	.300	.750
PHI			
.1000	-.2480	-.2520	
90.1000	-.2540	-.2540	-.2540
135.1000	-.2640	-.2680	-.2560
180.1000	-.1170	-.1470	-.2640
225.1000	-.2690	-.2660	-.2580
270.1000	-.2560	-.2540	-.2530

MACH (1) = 1.555 BETAT (4) = -.110

X/LNF	.250	.300	.750
PHI			
.1000	-.2360	-.2370	
90.1000	-.2440	-.2410	-.2390
135.1000	-.2420	-.2320	-.2420
180.1000	-.1120	-.2190	-.2420
225.1000	-.2460	-.2440	-.2410
270.1000	-.2480	-.2410	-.2360

MACH (1) = 1.555 BETAT (5) = 4.000

X/LNF	.250	.300	.750
PHI			
.1000	-.2430	-.2450	
90.1000	-.2530	-.2540	-.2510
135.1000	-.2610	-.2670	-.2520
180.1000	-.1490	-.1690	-.2560
225.1000	-.2720	-.2620	-.2490

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

(R8C016)

AWES 97-707 1A9 ORA + S3 + 19 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE	DEPENDENT VARIABLE CP
MACH (1) = 1.555 BETAT (5) = 4.000	X/LNP .250 .500 .750
	PHI 270.000 -.2450 -.2440
MACH (1) = 1.555 BETAT (6) = 6.060	X/LNP .250 .500 .750
	PHI .000 -.2540 -.2570
	90.000 -.2640 -.2610 -.2650
	135.000 -.2800 -.2710 -.2620
	180.000 -.1550 -.1710 -.2680
	225.000 -.2920 -.2630 -.2610
	270.000 -.2590 -.2570 -.2560
MACH (1) = 1.555 BETAT (7) = 8.120	X/LNP .250 .500 .750
	PHI .000 -.2670 -.2680
	90.000 -.2770 -.2720 -.2710
	135.000 -.2910 -.2760 -.2720
	180.000 -.1950 -.1460 -.2790
	225.000 -.3070 -.2690 -.2720
	270.000 -.2690 -.2690 -.2670
MACH (2) = 2.000 BETAT (1) = -6.340	X/LNP .250 .500 .750
	PHI .000 -.2170 -.2220
	90.000 -.2320 .0000 .0000
	135.000 -.2330 .0000 .0000
	180.000 -.1950 .0000 .0000
	225.000 -.2400 .0000 .0000
	270.000 -.2240 .0000 .0000
MACH (2) = 2.000 BETAT (2) = -6.270	X/LNP .250 .500 .750
	PHI .000 -.1870 -.1870
	90.000 -.1980 -.1910 -.1900
	135.000 -.2050 -.1830 -.1940
	180.000 -.1630 -.1630 -.2120
	225.000 -.2050 -.2050 -.1920
	270.000 -.1920 -.1940 -.1880
MACH (2) = 2.000 BETAT (3) = -4.220	X/LNP .250 .500 .750
	PHI .000 -.1890 -.1910
	90.000 -.1970 -.1920 -.1920
	135.000 -.2040 -.2010 -.1970
	180.000 -.0610 -.0790 -.2030
	225.000 -.2080 -.2060 -.1970

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B

(RBC016)

AMES 97-7U7 1A9 OCA + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.220
 X/LNP .250 .500 .750
 PHI 270.000 -.1950 -.1930 -.1900

MACH (2) = 2.000 BETAT (4) = -.120
 X/LNP .250 .500 .750
 PHI .000 -.1680 -.1690
 90.000 -.1900 -.1910 -.1890
 135.000 -.2140 -.1680 -.1960
 180.000 -.0300 -.0870 -.1990
 225.000 -.2160 -.2050 -.1920
 270.000 -.1910 -.1910 -.1890

MACH (2) = 2.000 BETAT (5) = 3.990
 X/LNF .250 .500 .750
 PHI .000 -.1930 -.1940
 90.000 -.1990 -.1970 -.1970
 135.000 -.2170 -.2090 -.2100
 180.000 -.0890 -.0620 -.2080
 225.000 -.2190 -.2070 -.2030
 270.000 -.2100 -.1980 -.1920

MACH (2) = 2.000 BETAT (6) = 6.050
 X/LNF .250 .500 .750
 PHI .000 -.1630 -.1640
 90.000 -.1680 -.1670 -.1670
 135.000 -.2010 -.1970 -.1890
 180.000 -.1390 -.0180 -.1950
 225.000 -.2240 -.1830 -.1890
 270.000 -.1940 -.1660 -.1600

MACH (2) = 2.000 BETAT (7) = 8.110
 X/LNF .250 .500 .750
 PHI .000 -.1690 -.1690
 90.000 -.1950 -.1950 -.1950
 135.000 -.2040 -.2040 -.1960
 180.000 -.1910 .0090 -.2110
 225.000 -.2190 -.1940 -.1940
 270.000 -.1990 -.1910 -.1650

AMES 97-707 IAS OEA + S3 + T9 UPPER MPS NOZZLE

PARAMETRIC DATA

ALPHAT = -8.000 CRBTNC = .500
 RUDDER = -10.000 ELEVON = .000
 RUFLR = .000

REFERENCE DATA

SRPF = 2.4210 90.FT. XMRP = 28.5300 INCHES
 LRPF = 39.8490 INCHES YMRP = .0000 INCHES
 BRPF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE

MACH (1) = 1.555 BETAT (1) = -8.410

X/LNP	.250	.500	.750
PHI	.000	-.2050	-.2040
90.000	-.2070	-.2030	-.2020
135.000	-.2660	-.2150	-.2240
180.000	-.0610	.0160	-.2240
225.000	-.2460	-.2330	-.2080
270.000	-.2150	-.2100	-.2080

MACH (1) = 1.555 BETAT (2) = -6.360

X/LNP	.250	.500	.750
PHI	.000	-.2050	-.2020
90.000	-.2060	-.2030	-.2030
135.000	-.2630	-.2160	-.2250
180.000	-.0290	.0320	-.2240
225.000	-.2360	-.2350	-.2160
270.000	-.2100	-.2060	-.2050

MACH (1) = 1.555 BETAT (3) = -4.300

X/LNP	.250	.500	.750
PHI	.000	-.2150	-.2140
90.000	-.2140	-.2150	-.2160
135.000	-.2740	-.2230	-.2290
180.000	-.0480	-.0410	-.2320
225.000	-.2430	-.2430	-.2230
270.000	-.2210	-.2180	-.2160

MACH (1) = 1.555 BETAT (4) = -1.180

X/LNP	.250	.500	.750
PHI	.000	-.2240	-.2240
90.000	-.2280	-.2280	-.2260
135.000	-.2500	-.2370	-.2390
180.000	.0650	-.0370	-.2380
225.000	-.2460	-.2340	-.2340
270.000	-.2280	-.2240	-.2240

MACH (1) = 1.555 BETAT (5) = 3.990

X/LNP	.250	.500	.750
PHI	.000	-.2080	-.2160
90.000	-.2190	-.2170	-.2150
135.000	-.2350	-.2410	-.2190
180.000	-.0390	.0440	-.2270
225.000	-.2390	-.2220	-.2250

(RBC017)

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 OCA + S3 + T9 UPPER MFS NOZZLE

SECTION (1) MFS NOZZLE		DEPENDENT VARIABLE CP	
MACH (1) = 1.555	BETAT (5) = 3.930	X/LNF	.250 .500 .750
		PHI	270.000 - .2080 - .2080 - .2080
MACH (1) = 1.555	BETAT (6) = 5.990	X/LNF	.250 .500 .750
		PHI	.000 - .2060 - .2020 - .2070
		90.000	- .2120 - .2090 - .2060
		135.000	- .2350 - .2430 - .2060
		180.000	- .0210 - .0480 - .2210
		225.000	- .2690 - .2250 - .2250
		270.000	- .2040 - .2040 - .2040
MACH (1) = 1.555	BETAT (7) = 8.090	X/LNF	.250 .500 .750
		PHI	.000 - .2080 - .2030
		90.000	- .2170 - .2120 - .2090
		135.000	- .2570 - .2340 - .2100
		180.000	- .0140 - .0590 - .2240
		225.000	- .2740 - .2190 - .2240
		270.000	- .2030 - .2030 - .1980
MACH (2) = 2.000	BETAT (1) = -8.360	X/LNF	.250 .500 .750
		PHI	.000 - .1460 - .1510
		90.000	- .1610 - .1510 - .1430
		135.000	- .0960 - .1610 - .1650
		180.000	.0670 - .0240 - .1640
		225.000	- .2040 - .1780 - .1630
		270.000	- .1580 - .1530 - .1490
MACH (2) = 2.000	BETAT (2) = -6.330	X/LNF	.250 .500 .750
		PHI	.000 - .1560 - .1630
		90.000	- .1670 - .1620 - .1550
		135.000	- .1080 - .1780 - .1740
		180.000	.0910 - .0490 - .1740
		225.000	- .2030 - .1760 - .1840
		270.000	- .1680 - .1640 - .1570
MACH (2) = 2.000	BETAT (3) = -4.280	X/LNF	.250 .500 .750
		PHI	.000 - .1550 - .1570
		90.000	- .1640 - .1610 - .1540
		135.000	- .1590 - .1720 - .1680
		180.000	.0960 .0350 - .1660
		225.000	- .1960 - .1640 - .1760

AMES 97-707 1AS OCA + S3 + T9 UPPER MPS NOZZLE

(RBC017)

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (3) = -4.280	X/LNF	.250	.500	.750
		PHI			
		270.000	-.1630	-.1630	-.1550
MACH (2) = 2.000	BETAT (4) = -3.170	X/LNF	.250	.500	.750
		PHI			
		90.000	-.1560	-.1580	
		90.000	-.1600	-.1580	-.1580
		135.000	-.2240	-.1660	-.1780
		180.000	.1620	.0520	-.1640
		225.000	-.2020	-.1730	-.1720
		270.000	-.1610	-.1590	-.1540

MACH (2) = 2.000 BETAT (5) = 3.930

X/LNF	.250	.500	.750
PHI			
90.000	-.1590	-.1620	
90.000	-.1710	-.1690	-.1630
135.000	-.2160	-.1820	-.1810
180.000	.1340	.0500	-.1720
225.000	-.1780	-.1880	-.1840
270.000	-.1720	-.1660	-.1580

MACH (2) = 2.000 BETAT (6) = 5.980

X/LNF	.250	.500	.750
PHI			
90.000	-.1610	-.1640	
90.000	-.1740	-.1690	-.1660
135.000	-.2210	-.1910	-.1820
180.000	.1090	-.0190	-.1740
225.000	-.1340	-.2030	-.1920
270.000	-.1800	-.1720	-.1640

MACH (2) = 2.000 BETAT (7) = 6.040

X/LNF	.250	.500	.750
PHI			
90.000	-.1530	-.1590	
90.000	-.1640	-.1610	-.1590
135.000	-.2140	-.1840	-.1720
180.000	.1280	.0260	-.1760
225.000	-.1170	-.1820	-.1880
270.000	-.1770	-.1640	-.1560

(R00018) (24 MAY 75)

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1A9B
 AMES 97-707 1A9 O2A + S3 + T9 UPPER MPS NOZZLE

REFERENCE DATA
 SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.6490 INCHES YMRP = .0000 INCHES
 BREF = 39.6490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

PARAMETRIC DATA
 ALPHAT = -4.0000 ORBINC = .5000
 RUDDER = -10.0000 ELEVON = .0000
 RUDFLR = .0000

SECTION (1) MPS NOZZLE

MACH (1) = 1.555 BETAT (1) = -8.340

DEPENDENT VARIABLE CP		X/LNP	.250	.500	.750
PHI	.0000		-.2260	-.2260	
	90.0000		-.2250	-.2240	-.2270
	135.0000		-.2740	-.2390	-.2400
	180.0000		-.1210	-.0140	-.2470
	225.0000		-.2690	-.2520	-.2330
	270.0000		-.2350	-.2330	-.2310

MACH (1) = 1.555 BETAT (2) = -6.300

PHI	.0000		-.2240	-.2240	
	90.0000		-.2250	-.2230	-.2250
	135.0000		-.2750	-.2360	-.2420
	180.0000		-.0720	-.1570	-.2430
	225.0000		-.2570	-.2460	-.2280
	270.0000		-.2340	-.2290	-.2280

MACH (1) = 1.555 BETAT (3) = -4.250

PHI	.0000		-.2280	-.2280	
	90.0000		-.2280	-.2280	-.2290
	135.0000		-.2730	-.2370	-.2390
	180.0000		-.1670	-.1840	-.2430
	225.0000		-.2490	-.2460	-.2330
	270.0000		-.2350	-.2320	-.2340

MACH (1) = 1.555 BETAT (4) = -.160

PHI	.0000		-.2330	-.2340	
	90.0000		-.2360	-.2350	-.2330
	135.0000		-.2490	-.2450	-.2430
	180.0000		-.1090	-.1020	-.2450
	225.0000		-.2520	-.2440	-.2380
	270.0000		-.2350	-.2340	-.2320

MACH (1) = 1.555 BETAT (5) = 3.990

PHI	.0000		-.2240	-.2220	
	90.0000		-.2320	-.2290	-.2310
	135.0000		-.2450	-.2450	-.2310
	180.0000		-.1040	-.1020	-.2390
	225.0000		-.2610	-.2330	-.2310

(R00016)

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1A88
 AXES: 97-707 1A9 02A + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE		DEPENDENT VARIABLE CP	
MACH (1) = 1.555	BETAT (5) = 3.930	X/LNP	.250 .500 .750
		PHI	270.000 -.2210 -.2200 -.2220
MACH (1) = 1.555	BETAT (6) = 5.980	X/LNP	.250 .500 .750
		PHI	.000 -.2240 -.2230
		90.000	-.2340 -.2290 -.2310
		135.000	-.2560 -.2610 -.2310
		180.000	-.0620 .0280 -.2460
		225.000	-.2790 -.2430 -.2430
		270.000	-.2240 -.2220 -.2210
MACH (1) = 1.555	BETAT (7) = 8.020	X/LNP	.250 .500 .750
		PHI	.000 -.2210 -.2210
		90.000	-.2300 -.2270 -.2280
		135.000	-.2630 -.2540 -.2290
		180.000	-.1020 .1610 -.2470
		225.000	-.2780 -.2400 -.2340
		270.000	-.2210 -.2180 -.2150
MACH (2) = 2.000	BETAT (1) = -0.320	X/LNP	.250 .500 .750
		PHI	.000 -.1570 -.1600
		90.000	-.1690 -.1570 -.1550
		135.000	-.1410 -.1540 -.1640
		180.000	.0120 .0840 -.1770
		225.000	-.1940 -.1870 -.1640
		270.000	-.1650 -.1620 -.1590
MACH (2) = 2.000	BETAT (2) = -6.270	X/LNP	.250 .500 .750
		PHI	.000 -.1670 -.1720
		90.000	-.1780 -.1720 -.1660
		135.000	-.1560 -.1730 -.1770
		180.000	.0310 -.0430 -.1840
		225.000	-.2080 -.1820 -.1880
		270.000	-.1770 -.1740 -.1690
MACH (2) = 2.000	BETAT (3) = -4.230	X/LNP	.250 .500 .750
		PHI	.000 -.1690 -.1720
		90.000	-.1770 -.1730 -.1750
		135.000	-.1860 -.1820 -.1780
		180.000	.1110 -.0210 -.1830
		225.000	-.2050 -.1800 -.1870

(R80018)

TABULATED PRESSURE DATA - 1A99

AMES 97-707 1A9 O6A + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE		DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (3) = -4.250	X/LNP	.250 .500 .750
		PHI	270.000 -.1750 -.1750 -.1690
MACH (2) = 2.000	BETAT (4) = -.160	X/LNP	.250 .500 .750
		PHI	.000 -.1730 -.1730
		90.000	-.1750 -.1750 -.1720
		135.000	-.2270 -.1820 -.1920
		180.000	.0910 .0220 -.1780
		225.000	-.2070 -.1870 -.1820
		270.000	-.1750 -.1730 -.1690
MACH (2) = 2.000	BETA" (5) = 3.920	X/LNP	.250 .500 .750
		PHI	.000 -.1720 -.1760
		90.000	-.1810 -.1790 -.1760
		135.000	-.2230 -.1910 -.1920
		180.000	.0510 .0120 -.1880
		225.000	-.2000 -.1930 -.1910
		270.000	-.1820 -.1790 -.1710
MACH (2) = 2.000	BETAT (6) = 5.960	X/LNP	.250 .500 .750
		PHI	.000 -.1690 -.1730
		90.000	-.1770 -.1740 -.1740
		135.000	-.2200 -.1900 -.1840
		180.000	.0360 .0490 -.1880
		225.000	-.1830 -.1920 -.1910
		270.000	-.1830 -.1740 -.1680
MACH (2) = 2.000	BETAT (7) = 6.010	X/LNP	.250 .500 .750
		PHI	.000 -.1620 -.1670
		90.000	-.1720 -.1690 -.1680
		135.000	-.2020 -.1990 -.1720
		180.000	.0380 .0300 -.1860
		225.000	-.1560 -.1780 -.1870
		270.000	-.1740 -.1640 -.1590

AMES 97-707 1A9 OEA + S3 + T9 UPPER NPS NOZZLE (RBC019) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 26.3300 INCHES
 LRFP = 39.8490 INCHES YMRP = .0020 INCHES
 BRFP = 39.8490 INCHES ZMRP = .0020 INCHES
 SCALE = .0020 SCALE

PARAMETRIC DATA

ALPHAT = .0000 ORBINC = .0000
 RUDDER = -10.0000 ELEVON = .0000
 RUDFLR = .0000

SECTION (1) NPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.320

X/LNF	.250	.500	.750
PHI	.0000	-.2400	-.2400
90.000	-.2430	-.2390	-.2420
135.000	-.2690	-.2630	-.2500
180.000	-.1140	-.1120	-.2570
225.000	-.2720	-.2580	-.2450
270.000	-.2510	-.2470	-.2440

MACH (1) = 1.555 BETAT (2) = -6.270

X/LNF	.250	.500	.750
PHI	.0000	-.2320	-.2330
90.000	-.2350	-.2320	-.2330
135.000	-.2670	-.2500	-.2430
180.000	-.1400	-.1680	-.2520
225.000	-.2570	-.2560	-.2390
270.000	-.2400	-.2370	-.2370

MACH (1) = 1.555 BETAT (3) = -4.240

X/LNF	.250	.500	.750
PHI	.0000	-.2370	-.2360
90.000	-.2370	-.2370	-.2390
135.000	-.2640	-.2460	-.2450
180.000	-.1130	-.1390	-.2460
225.000	-.2600	-.2450	-.2410
270.000	-.2430	-.2400	-.2390

MACH (1) = 1.555 BETAT (4) = -3.140

X/LNF	.250	.500	.750
PHI	.0000	-.2320	-.2320
90.000	-.2360	-.2360	-.2350
135.000	-.2400	-.2500	-.2380
180.000	-.1050	-.1300	-.2430
225.000	-.2480	-.2450	-.2360
270.000	-.2360	-.2340	-.2320

MACH (1) = 1.555 BETAT (5) = 3.990

X/LNF	.250	.500	.750
PHI	.0000	-.2260	-.2280
90.000	-.2370	-.2330	-.2330
135.000	-.2520	-.2400	-.2340
180.000	-.1490	-.1650	-.2360
225.000	-.249	-.2400	-.2310
270.000	-.249	-.2400	-.2310

(RBC019)

DATE 21 SEP 73
 CALCULATED PRESSURE DATA - IA98
 AMES 97-707 1A9 ORA + S3 + 19 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE		DEPENDENT VARIABLE CP	
MACH (1) = 1.555	BETAT (5) = 3.950	X/LNF	.250 .500 .750
		PHI	270.000 - .2280 - .2260 - .2250
MACH (1) = 1.555	BETAT (6) = 5.990	X/LNF	.250 .500 .750
		PHI	.000 - .2280 - .2290 - .2360
		90.000	- .2370 - .2340 - .2360
		135.000	- .2520 - .2590 - .2390
		180.000	- .0570 - 0.250 - .2490
		225.000	- .2730 - .2510 - .2380
		270.000	- .2300 - .2280 - .2270
MACH (1) = 1.555	BETAT (7) = 8.000	X/LNF	.250 .500 .750
		PHI	.000 - .2370 - .2380
		90.000	- .2440 - .2410 - .2420
		135.000	- .2690 - .2580 - .2450
		180.000	- .0470 - .0180 - .2550
		225.000	- .2850 - .2580 - .2440
		270.000	- .2370 - .2340 - .2320
MACH (2) = 2.000	BETAT (1) = -6.300	X/LNF	.250 .500 .750
		PHI	.000 - .1690 - .1710
		90.000	- .1720 - .1690 - .1730
		135.000	- .1870 - .1830 - .1770
		180.000	- .0730 - .0550 - .1870
		225.000	- .1880 - .1850 - .1740
		270.000	- .1770 - .1740 - .1710
MACH (2) = 2.000	BETAT (2) = -6.260	X/LNF	.250 .500 .750
		PHI	.000 - .1760 - .1790
		90.000	- .1810 - .1760 - .1760
		135.000	- .1930 - .1840 - .1830
		180.000	- .0460 - .0290 - .1920
		225.000	- .2160 - .1990 - .1810
		270.000	- .1840 - .1810 - .1780
MACH (2) = 2.000	BETAT (3) = -4.220	X/LNF	.250 .500 .750
		PHI	.000 - .1800 - .1820
		90.000	- .1840 - .1810 - .1810
		135.000	- .2030 - .1930 - .1880
		180.000	- .0310 - .0360 - .1950
		225.000	- .2080 - .1890 - .1940

(RBCD19)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B
 ANES 97-707 1A9 OSA + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE		DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (3) = -4.220	X/LNP	.250 .500 .750
		PHI	270.000 - .1040 - .1040 - .1040
MACH (2) = 2.000	BETAT (4) = -1.140	X/LNP	.250 .500 .750
		PHI	.1400 - .1770 - .1790
			90.000 - .1010 - .1010 - .1790
			135.000 - .2210 - .1080 - .1950
			180.000 .0960 - .1440 - .1870
			225.000 - .2160 - .1930 - .1040
			270.000 - .1010 - .1790 - .1760
MACH (2) = 2.000	BETAT (5) = 3.930	X/LNP	.250 .500 .750
		PHI	.1000 - .1700 - .1000
			90.000 - .1040 - .1020 - .1000
			135.000 - .2180 - .1070 - .1910
			180.000 - .0320 - .1440 - .1940
			225.000 - .2190 - .1940 - .1090
			270.000 - .1030 - .1060 - .1750
MACH (2) = 2.000	BETAT (6) = 5.960	X/LNF	.250 .500 .750
		PHI	.1000 - .1720 - .1750
			90.000 - .1000 - .1700 - .1770
			135.000 - .2050 - .1980 - .1790
			180.000 - .0300 - .0750 - .1930
			225.000 - .2130 - .1810 - .1090
			270.000 - .1070 - .1750 - .1710
MACH (2) = 2.000	BETAT (7) = 0.020	X/LNF	.250 .500 .750
		PHI	.1000 - .1770 - .1790
			90.000 - .1040 - .1030 - .1030
			135.000 - .1970 - .2110 - .1040
			180.000 .0120 .0660 - .1990
			225.000 - .2120 - .1910 - .1980
			270.000 - .1910 - .1020 - .1750

DATE 21 SEP 73

TABLATED PRESSURE DATA - 1A98

AMES 97-707 1A9 02A + S3 + T9 UPPER WFS NOZZLE

(RBO020) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 SREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

PARAMETRIC DATA
 ALPHAT = 4.0000 ORBINC = .0000
 RUDDER = -10.0000 ELEVON = .0000
 RUDFLR = .0000

DEPENDENT VARIABLE CP

SECTION (1) WFS NOZZLE
 MACH (3) = 1.555 BETAT (1) = -6.300
 X/LNP .500 .250 .500 .750
 PHI .000 -.2510 -.2530

90.000 -.2560 -.2510 -.2540
 135.000 -.2970 -.2810 -.2620
 180.000 -.1130 -.2330 -.2610
 225.000 -.2770 -.2600 -.2570
 270.000 -.2590 -.2560 -.2540

MACH (1) = 1.555 BETAT (2) = -6.270
 X/LNP .500 .250 .500 .750
 PHI .000 -.2450 -.2470

90.000 -.2480 -.2460 -.2470
 135.000 -.2770 -.2680 -.2520
 180.000 -.0820 -.1320 -.2600
 225.000 -.2670 -.2650 -.2500
 270.000 -.2520 -.2490 -.2470

MACH (1) = 1.555 BETAT (3) = -4.220
 X/LNP .500 .250 .500 .750
 PHI .000 -.2450 -.2460

90.000 -.2480 -.2460 -.2450
 135.000 -.2680 -.2600 -.2490
 180.000 -.0680 -.1480 -.2570
 225.000 -.2650 -.2630 -.2500
 270.000 -.2510 -.2490 -.2470

MACH (1) = 1.555 BETAT (4) = -1.130
 X/LNP .500 .250 .500 .750
 PHI .000 -.2280 -.2280

90.000 -.2310 -.2300 -.2290
 135.000 -.2290 -.2420 -.2320
 180.000 -.0850 -.1800 -.2310
 225.000 -.2370 -.2360 -.2300
 270.000 -.2320 -.2290 -.2280

MACH (1) = 1.555 BETAT (5) = 3.960
 X/LNP .500 .250 .500 .750
 PHI .000 -.2370 -.2380

90.000 -.2430 -.2400 -.2420
 135.000 -.2590 -.2530 -.2420
 180.000 -.0960 -.1740 -.2450
 225.000 -.2670 -.2520 -.2410

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

AMES 97-707 1A9 ORA + S3 + T9 UPPER MPS NOZZLE

(RB00020)

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE

MACH (1) = 1.555 BETAT (5) = 3.960

X/LNP .250 .500 .750
PHI
270.000 -.2400 -.2360 -.2360

MACH (1) = 1.555 BETAT (6) = 6.010

X/LNP .250 .500 .750
PHI
.000 -.2400 -.2420
90.000 -.2460 -.2440 -.2460
135.000 -.2680 -.2600 -.2470
180.000 -.0630 -.1090 -.2530
225.000 -.2770 -.2630 -.2430
270.000 -.2410 -.2390 -.2370

MACH (1) = 1.555 BETAT (7) = 8.060

X/LNP .250 .500 .750
PHI
.000 -.2540 -.2540
90.000 -.2610 -.2570 -.2590
135.000 -.2820 -.2710 -.2670
180.000 -.0790 -.1830 -.2680
225.000 -.2980 -.2770 -.2570
270.000 -.2550 -.2500 -.2490

MACH (2) = 2.000 BETAT (1) = -0.280

X/LNP .250 .500 .750
PHI
.000 -.1800 -.1810
90.000 -.1920 -.1890 -.1840
135.000 -.1920 -.1830 -.1890
180.000 -.1230 -.1240 -.1970
225.000 -.2030 -.1930 -.1860
270.000 -.1870 -.1840 -.1820

MACH (2) = 2.000 BETAT (2) = -0.240

X/LNP .250 .500 .750
PHI
.000 -.1810 -.1830
90.000 -.1870 -.1840 -.1830
135.000 -.2080 -.1870 -.1930
180.000 -.1870 -.1570 -.1960
225.000 -.2140 -.1950 -.1870
270.000 -.1890 -.1870 -.1830

MACH (2) = 2.000 BETAT (3) = -4.200

X/LNP .250 .500 .750
PHI
.000 -.1840 -.1860
90.000 -.1880 -.1860 -.1860
135.000 -.2250 -.1990 -.1940
180.000 -.1610 -.1510 -.2010
225.000 -.2090 -.1960 -.1960

(R80020)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 OSA + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.200
 X/LNP .250 .500 .750
 PHI 270.000 -.1910 -.1690 -.1640

MACH (2) = 2.000 BETAT (4) = -1.130
 X/LNP .250 .500 .750
 PHI .000 -.1810 -.1620
 90.000 -.1670 -.1640 -.1620
 135.000 -.2010 -.1680 -.1960
 180.000 .0000 -.0470 -.1940
 225.000 -.2080 -.1960 -.1650
 270.000 -.1840 -.1620 -.1790

MACH (2) = 2.000 BETAT (5) = 3.950
 X/LNP .250 .500 .750
 PHI .000 -.1670 -.1680
 90.000 -.1930 -.1910 -.1910
 135.000 -.2190 -.1990 -.1950
 180.000 -.0330 -.0690 -.2010
 225.000 -.2330 -.2010 -.1970
 270.000 -.1910 -.1690 -.1650

MACH (2) = 2.000 BETAT (6) = 5.990
 X/LNP .250 .500 .750
 PHI .000 -.1610 -.1630
 90.000 -.1670 -.1660 -.1670
 135.000 -.2120 -.1990 -.1870
 180.000 -.0820 -.0130 -.1990
 225.000 -.2270 -.1640 -.1970
 270.000 -.1890 -.1670 -.1610

MACH (2) = 2.000 BETAT (7) = 6.040
 X/LNP .250 .500 .750
 PHI .000 -.1930 -.1930
 90.000 -.1980 -.1960 -.1970
 135.000 -.2110 -.2110 -.2100
 180.000 -.0250 .0010 -.2100
 225.000 -.2150 -.1960 -.2050
 270.000 -.2130 -.1950 -.1890

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 OEA + S3 + T9 UPPER MPS NOZZLE

(RBD021) (24 MAY 75)

REFERENCE DATA

SREF = 2.4210 89. FT. YMRP = 28.5300 INCHES
 LREF = 39.8498 INCHES YMRP = .0000 INCHES
 BREF = 39.8498 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.330

X/LNP	.250	.500	.750
PHI	.000	-.2550	-.2560
90.000	-.2600	-.2570	-.2590
135.000	-.2690	-.2740	-.2650
180.000	-.1710	-.2410	-.2670
225.000	-.2790	-.2640	-.2620
270.000	-.2640	-.2600	-.2590

MACH (1) = 1.555 BETAT (2) = -2.290

X/LNP	.250	.500	.750
PHI	.000	-.2510	-.2530
90.000	-.2570	-.2540	-.2540
135.000	-.2830	-.2710	-.2590
180.000	-.1110	-.1670	-.2680
225.000	-.2750	-.2720	-.2570
270.000	-.2590	-.2550	-.2540

MACH (1) = 1.555 BETAT (3) = -4.230

X/LNP	.250	.500	.750
PHI	.000	-.2440	-.2470
90.000	-.2500	-.2470	-.2460
135.000	-.2680	-.2660	-.2490
180.000	-.0760	-.1470	-.2580
225.000	-.2670	-.2630	-.2530
270.000	-.2530	-.2490	-.2490

MACH (1) = 1.555 BETAT (4) = -1.120

X/LNP	.250	.500	.750
PHI	.000	-.2300	-.2320
90.000	-.2350	-.2340	-.2330
135.000	-.2350	-.2440	-.2340
180.000	-.0930	-.2010	-.2340
225.000	-.2380	-.2360	-.2350
270.000	-.2390	-.2340	-.2310

MACH (1) = 1.555 BETAT (5) = 3.980

X/LNP	.250	.500	.750
PHI	.000	-.2380	-.2400
90.000	-.2460	-.2450	-.2460
135.000	-.2590	-.2570	-.2470
180.000	-.1690	-.1470	-.2490
225.000	-.2630	-.2560	-.2430

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

(RBC0021)

AMES 97-707 IAS OEA + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (5) = 3.980	X/LNP	.250	.500	.750
		PHI			
		270.000	-.2410	-.2380	-.2380
		PHI			
		X/LNP	.250	.500	.750
		PHI			
		.000	-.2450	-.2460	
		90.000	-.2530	-.2510	-.2520
		135.000	-.2750	-.2660	-.2530
		180.000	-.1020	-.1140	-.2580
		225.000	-.2810	-.2630	-.2490
		270.000	-.2480	-.2450	-.2440

MACH (1) = 1.555	BETAT (7) = 8.110	X/LNP	.250	.500	.750
		PHI			
		.000	-.2570	-.2590	
		90.000	-.2680	-.2640	-.2640
		135.000	-.2820	-.2730	-.2650
		180.000	-.1380	-.1050	-.2760
		225.000	-.2980	-.2690	-.2620
		270.000	-.2590	-.2560	-.2550

MACH (2) = 2.000	BETAT (1) = -8.310	X/LNP	.250	.500	.750
		PHI			
		.000	-.1820	-.1830	
		90.000	-.1950	-.1870	-.1880
		135.000	-.1970	-.1860	-.1940
		180.000	-.1370	-.1570	-.1990
		225.000	-.2190	-.1950	-.1880
		270.000	-.1890	-.1860	-.1830

MACH (2) = 2.000	BETAT (2) = -6.280	X/LNP	.250	.500	.750
		PHI			
		.000	-.1880	-.1920	
		90.000	-.1960	-.1925	-.1920
		135.000	-.2050	-.1920	-.1950
		180.000	-.1140	-.1340	-.2120
		225.000	-.2160	-.2140	-.1930
		270.000	-.1930	-.1910	-.1890

MACH (2) = 2.000	BETAT (3) = -4.210	X/LNP	.250	.500	.750
		PHI			
		.000	-.1880	-.1890	
		90.000	-.1890	-.1890	-.1890
		135.000	-.2210	-.2140	-.1960
		180.000	-.10300	-.10600	-.21200
		225.000	-.21900	-.21400	-.19700

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98
 AMES 97-707 IAS O2A + S3 + T9 UPPER MPS NOZZLE

(R8C08E1)

SECTION (1) MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.210

X/LNP	.250	.500	.750
PHI			
270.000	-.1930	-.1900	-.1880

MACH (2) = 2.000 BETAT (4) = -.120

X/LNP	.250	.500	.750
PHI			
.000	-.1820	-.1830	
90.000	-.1830	-.1830	-.1830
135.000	-.1920	-.1840	-.1900
180.000	-.0240	-.0740	-.1920
225.000	-.2080	-.1970	-.1850
270.000	-.1840	-.1830	-.1810

MACH (2) = 2.000 BETAT (5) = 3.970

X/LNP	.250	.500	.750
PHI			
.000	-.1670	-.1930	
90.000	-.1950	-.1930	-.1930
135.000	-.2160	-.2040	-.1960
180.000	-.0950	-.0630	-.2030
225.000	-.2380	-.2010	-.2010
270.000	-.1940	-.1920	-.1860

MACH (2) = 2.000 BETAT (6) = 6.020

X/LNP	.250	.500	.750
PHI			
.000	-.1670	-.1880	
90.000	-.1910	-.1910	-.1920
135.000	-.2060	-.2030	-.1930
180.000	-.1180	-.0230	-.2010
225.000	-.2280	-.1870	-.1980
270.000	-.1960	-.1930	-.1840

MACH (2) = 2.000 BETAT (7) = 8.070

X/LNP	.250	.500	.750
PHI			
.000	-.1930	-.1940	
90.000	-.1990	-.1980	-.1990
135.000	-.2090	-.2110	-.2000
180.000	-.0450	0.0100	-.2090
225.000	-.2260	-.1940	-.2010
270.000	-.2030	-.1970	-.1890

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

AMES 97-707 1A9 C8A + S3 + T9 UPPER MPS NOZZLE

(RBO022) (24 MAY 75)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0390 SCALE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) MPS NOZZLE

MACH (1) = 1.555 BETAT (1) = -8.360

X/LNP	.250	.500	.750
PHI			
.000	-.2610	-.2630	
90.000	-.2690	-.2670	-.2670
135.000	-.2870	-.2680	-.2680
180.000	-.2170	-.2440	-.2720
225.000	-.2840	-.2660	-.2660
270.000	-.2710	-.2660	-.2640

MACH (1) = 1.555 BETAT (2) = -6.310

X/LNP	.250	.500	.750
PHI			
.000	-.2520	-.2550	
90.000	-.2600	-.2570	-.2570
135.000	-.2740	-.2630	-.2630
180.000	-.1410	-.1700	-.2680
225.000	-.2730	-.2660	-.2630
270.000	-.2630	-.2630	-.2570

MACH (1) = 1.555 BETAT (3) = -4.230

X/LNP	.250	.500	.750
PHI			
.000	-.2450	-.2480	
90.000	-.2510	-.2480	-.2480
135.000	-.2590	-.2650	-.2530
180.000	-.1070	-.1510	-.2610
225.000	-.2680	-.2630	-.2530
270.000	-.2520	-.2530	-.2510

MACH (1) = 1.555 BETAT (4) = -1.110

X/LNP	.250	.500	.750
PHI			
.000	-.2320	-.2330	
90.000	-.2390	-.2370	-.2340
135.000	-.2360	-.2440	-.2370
180.000	-.1050	-.2220	-.2360
225.000	-.2390	-.2350	-.2350
270.000	-.2410	-.2350	-.2320

MACH (1) = 1.555 BETAT (5) = 3.940

X/LNP	.250	.500	.750
PHI			
.000	-.2430	-.2450	
90.000	-.2500	-.2490	-.2490
135.000	-.2580	-.2610	-.2490
180.000	-.1080	-.1780	-.2530
225.000	-.2680	-.2590	-.2460

(RR-022)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98
 ANES 97-707 1A9 OSA + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE		DEPENDENT VARIABLE CP	
MACH (1) = 1.555	BETAT (5) = 3.940	X/LNF	.250 .500 .750
		PHI	270.000 -.2490 -.2440 -.2420
MACH (1) = 1.555	BETAT (6) = 6.160	X/LNF	.250 .500 .750
		PHI	.000 -.2510 -.2540
		90.000	-.2590 -.2570 -.2570
		135.000	-.2750 -.2670 -.2570
		180.000	-.1490 -.2130 -.2630
		225.000	-.2860 -.2630 -.2570
		270.000	-.2570 -.2530 -.2510
MACH (1) = 1.555	BETAT (7) = 8.120	X/LNF	.250 .500 .750
		PHI	.000 -.2640 -.2650
		90.000	-.2730 -.2710 -.2690
		135.000	-.2880 -.2740 -.2710
		180.000	-.2120 -.1740 -.2750
		225.000	-.3160 -.2650 -.2680
		270.000	-.2670 -.2670 -.2650
MACH (2) = 2.000	BETAT (1) = -8.330	X/LNF	.250 .500 .750
		PHI	.000 -.1820 -.1830
		90.000	-.1950 -.1860 -.1840
		135.000	-.1950 -.1770 -.1940
		180.000	-.1570 -.1630 -.1960
		225.000	-.2140 -.1910 -.1870
		270.000	-.1880 -.1860 -.1830
MACH (2) = 2.000	BETAT (2) = -6.280	X/LNF	.250 .500 .750
		PHI	.000 -.1860 -.1880
		90.000	-.1980 -.1940 -.1890
		135.000	-.2140 -.1830 -.1980
		180.000	-.1860 -.1730 -.2140
		225.000	-.2030 -.2040 -.1910
		270.000	-.1910 -.1890 -.1860
MACH (2) = 2.000	BETAT (3) = -4.220	X/LNF	.250 .500 .750
		PHI	.000 -.1940 -.1920
		90.000	-.1980 -.1930 -.1930
		135.000	-.2140 -.2110 -.1990
		180.000	-.1560 -.1770 -.2130
		225.000	-.2180 -.2150 -.1980

AMES 97-707 IA9 OEA + S3 + T9 UPPER MPS NOZZLE (RBC022)

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (3) = -4.220	X/LNP	PHI	.250	.500	.750
		270.000		-.1940	-.1930	-.1910
MACH (2) = 2.000	BETAT (4) = -.110	X/LNP	PHI	.250	.500	.750
		90.000		-.1050	-.1060	
		135.000		-.1080	-.1080	-.1060
		180.000		-.1080	-.1080	-.1020
		225.000		-.0340	-.0890	-.1060
		270.000		-.2110	-.1970	-.1890
				-.1090	-.1090	-.1050
MACH (2) = 2.000	BETAT (5) = 4.000	X/LNP	PHI	.250	.500	.750
		90.000		-.1090	-.1910	
		135.000		-.1940	-.1930	-.1940
		180.000		-.2120	-.2070	-.1950
		225.000		-.0880	-.0780	-.2040
		270.000		-.2140	-.2020	-.2010
				-.1990	-.1930	-.1880
MACH (2) = 2.000	BETAT (6) = 6.050	X/LNP	PHI	.250	.500	.750
		90.000		-.1840	-.1860	
		135.000		-.1090	-.1080	-.1940
		180.000		-.2030	-.2040	-.1940
		225.000		-.1310	-.0360	-.1970
		270.000		-.2240	-.1810	-.1930
				-.1960	-.1090	-.1820
MACH (2) = 2.000	BETAT (7) = 8.110	X/LNP	PHI	.250	.500	.750
		90.000		-.1090	-.1920	
		135.000		-.1950	-.1940	-.1970
		180.000		-.2060	-.2070	-.1970
		225.000		-.0950	-.0170	-.2040
		270.000		-.2200	-.1090	-.1950
				-.2010	-.1930	-.1860

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .03000 SCALE

SECTION (1) MPS NOZZLE

MACH (1) = 1.555 BETAT (1) = -8.400

		DEPENDENT VARIABLE CP			
		X/LNP	.250	.500	.750
PHI	.000				
	90.000	-.2170	-.2160		
	135.000	-.2170	-.2150	-.2120	
	180.000	-.2660	-.2250	-.2370	
	225.000	-.0610	-.0320	-.2350	
	270.000	-.2590	-.2470	-.2180	
		-.2250	-.2250	-.2180	

MACH (1) = 1.555 BETAT (2) = -6.360

		DEPENDENT VARIABLE CP			
		X/LNF	.250	.500	.750
PHI	.000				
	90.000	-.2140	-.2120		
	135.000	-.2160	-.2120	-.2130	
	180.000	-.2660	-.2240	-.2360	
	225.000	-.0130	-.0460	-.2330	
	270.000	-.2480	-.2480	-.2150	
		-.2210	-.2160	-.2120	

MACH (1) = 1.555 BETAT (3) = -4.290

		DEPENDENT VARIABLE CP			
		X/LNF	.250	.500	.750
PHI	.000				
	90.000	-.2260	-.2240		
	135.000	-.2230	-.2240	-.2260	
	180.000	-.2830	-.2340	-.2390	
	225.000	.0120	-.0380	-.2420	
	270.000	-.2570	-.2580	-.2310	
		-.2340	-.2290	-.2270	

MACH (1) = 1.555 BETAT (4) = -3.170

		DEPENDENT VARIABLE CP			
		X/LNF	.250	.500	.750
PHI	.000				
	90.000	-.2410	-.2410		
	135.000	-.2460	-.2450	-.2420	
	180.000	-.2730	-.2560	-.2580	
	225.000	.0980	-.0410	-.2550	
	270.000	-.2650	-.2530	-.2450	
		-.2450	-.2450	-.2420	

MACH (1) = 1.555 BETAT (5) = 3.940

		DEPENDENT VARIABLE CP			
		X/LNF	.250	.500	.750
PHI	.000				
	90.000	-.2160	-.2160		
	135.000	-.2230	-.2230	-.2220	
	180.000	-.2390	-.2470	-.2240	
	225.000	-.0440	-.0270	-.2360	
	270.000	-.2760	-.2760	-.2340	

PARAMETRIC DATA

ALPHA = -8.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDLER = .000

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

(R80023)

AMES 97-707 1A9 OEA + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE DEFENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.944

X/LNP	.250	.500	.750
PHI			
270.000	-.2180	-.2180	-.2160

MACH (1) = 1.555 BETAT (6) = 8.060

X/LNP	.250	.500	.750
PHI			
.000	-.2150	-.2130	
90.000	-.2240	-.2190	-.2170
135.000	-.2640	-.2440	-.2180
180.000	-.0190	-.0190	-.2370
225.000	-.2860	-.2300	-.2380
270.000	-.2160	-.2160	-.2070

MACH (2) = 2.000 BETAT (1) = -8.300

X/LNP	.250	.500	.750
PHI			
.000	-.1480	-.1520	
90.000	-.1650	-.1540	-.1460
135.000	-.0860	-.1680	-.1700
180.000	-.0890	-.1270	-.1680
225.000	-.2090	-.1780	-.1670
270.000	-.1610	-.1560	-.1510

MACH (2) = 2.000 BETAT (2) = -6.330

X/LNP	.250	.500	.750
PHI			
.000	-.1630	-.1680	
90.000	-.1760	-.1710	-.1630
135.000	-.1070	-.1900	-.1960
180.000	-.1030	-.0830	-.1770
225.000	-.2110	-.1840	-.1890
270.000	-.1750	-.1770	-.1650

MACH (2) = 2.000 BETAT (3) = -4.280

X/LNP	.250	.500	.750
PHI			
.000	-.1580	-.1590	
90.000	-.1670	-.1650	-.1570
135.000	-.1490	-.1780	-.1770
180.000	-.2070	-.0330	-.1690
225.000	-.1990	-.1680	-.1780
270.000	-.1660	-.1640	-.1580

MACH (2) = 2.000 BETAT (4) = -1.170

X/LNP	.250	.500	.750
PHI			
.000	-.1570	-.1590	
90.000	-.1610	-.1590	-.1590
135.000	-.2260	-.1680	-.1790
180.000	-.1620	-.0530	-.1670
225.000	-.2090	-.1720	-.1740

(RBC023)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

AMES 97-707 1A9 O2A + S3 + T9 UPPER MPS NOZZLE

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE

MACH (2) = 2.000 BETAT (4) = -.175
 X/LNP .250 .500 .750
 PHI
 270.000 -.1630 -.1610 -.1570

MACH (2) = 2.000 BETAT (5) = 3.930
 X/LNP .250 .500 .750
 PHI
 .000 -.1630 -.1670
 90.000 -.1770 -.1730 -.1680
 135.000 -.2190 -.1870 -.1860
 180.000 .1270 .0420 -.1740
 225.000 -.1770 -.1950 -.1880
 270.000 -.1770 -.1720 -.1640

MACH (2) = 2.000 BETAT (6) = 5.980
 X/LNP .250 .500 .750
 PHI
 .000 -.1680 -.1690
 90.000 -.1800 -.1740 -.1700
 135.000 -.2260 -.2010 -.1880
 180.000 .1010 .0240 -.1760
 225.000 -.1530 -.2080 -.1970
 270.000 -.1870 -.1790 -.1700

MACH (2) = 2.000 BETAT (7) = 8.040
 X/LNP .250 .500 .750
 PHI
 .000 -.1580 -.1630
 90.000 -.1690 -.1660 -.1630
 135.000 -.2220 -.1920 -.1750
 180.000 .1240 .0200 -.1790
 225.000 -.1160 -.1970 -.1940
 270.000 -.1850 -.1720 -.1630

DATE 21 SEP 73

TUBULATED PRESSURE DATA - IA99

(RBCD24) (24 MAY 73)

AMES 97-707 IA9 OEA + S3 + T9 UPPER MPS NOZZLE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = 15.000 ELEVON = .000
 RUOFLR = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 26.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE

MACH (1) = 1.555 BETAT (1) = -8.330

X/LNP	.250	.500	.750
PHI			
.000	-.2290	-.2310	
90.000	-.2290	-.2250	-.2310
135.000	-.2670	-.2380	-.2450
180.000	-.0980	-.0160	-.2500
225.000	-.2750	-.2540	-.2350
270.000	-.2410	-.2350	-.2330

MACH (2) = 1.555 BETAT (2) = -6.290

X/LNP	.250	.500	.750
PHI			
.000	-.2270	-.2260	
90.000	-.2270	-.2240	-.2270
135.000	-.2750	-.2370	-.2430
180.000	-.0490	-.0520	-.2460
225.000	-.2630	-.2530	-.2310
270.000	-.2360	-.2310	-.2310

MACH (3) = 1.555 BETAT (3) = -4.240

X/LNP	.250	.500	.750
PHI			
.000	-.2310	-.2310	
90.000	-.2310	-.2310	-.2320
135.000	-.2740	-.2380	-.2410
180.000	-.0460	-.0880	-.2430
225.000	-.2570	-.2540	-.2360
270.000	-.2380	-.2350	-.2350

MACH (4) = 1.555 BETAT (4) = -1.150

X/LNP	.250	.500	.750
PHI			
.000	-.2420	-.2430	
90.000	-.2490	-.2460	-.2450
135.000	-.2650	-.2560	-.2560
180.000	.0270	-.0780	-.2570
225.000	-.2640	-.2550	-.2510
270.000	-.2470	-.2450	-.2420

MACH (5) = 1.555 BETAT (5) = 3.940

X/LNP	.250	.500	.750
PHI			
.000	-.2280	-.2260	
90.000	-.2380	-.2330	-.2340
135.000	-.2530	-.2510	-.2360
180.000	-.0860	-.0440	-.2420
225.000	-.2710	-.2420	-.2390

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1A9B
 AMES 97-707 IAS O2A + S5 + T9 UPPER MPS NOZZLE
 (RB0024)

SECTION (1) MPS NOZZLE		DEPENDENT VARIABLE CP	
MACH (1) = 1.555	BETAT (5) = 3.940	X/LNP	.250 .500 .750
		PHI	
		270.000	-.2270 -.2260 -.2270
MACH (1) = 1.555	BETAT (6) = 5.980	X/LNP	.250 .500 .750
		PHI	
		.000	-.2270 -.2260
		90.000	-.2360 -.2310 -.2320
		135.000	-.2590 -.2610 -.2350
		180.000	-.0610 -.1490 -.2490
		225.000	-.2870 -.2470 -.2500
		270.000	-.2300 -.2270 -.2240
MACH (1) = 1.555	BETAT (7) = 8.030	X/LNP	.250 .500 .750
		PHI	
		.000	-.2230 -.2230
		90.000	-.2340 -.2310 -.2300
		135.000	-.2770 -.2530 -.2310
		180.000	-.0520 -.0000 -.2460
		225.000	-.2870 -.2410 -.2440
		270.000	-.2260 -.2230 -.2190
MACH (2) = 2.000	BETAT (1) = -6.310	X/LNP	.250 .500 .750
		PHI	
		.000	-.1980 -.1630
		90.000	-.1670 -.1590 -.1570
		135.000	-.1380 -.1480 -.1650
		180.000	.0270 .0620 -.1790
		225.000	-.1990 -.1950 -.1660
		270.000	-.1670 -.1650 -.1610
MACH (2) = 2.000	BETAT (2) = -6.270	X/LNP	.250 .500 .750
		PHI	
		.000	-.1670 -.1720
		90.000	-.1770 -.1710 -.1650
		135.000	-.1510 -.1740 -.1720
		180.000	.0490 -.0400 -.1840
		225.000	-.2100 -.1820 -.1870
		270.000	-.1760 -.1740 -.1690
MACH (2) = 2.000	BETAT (3) = -4.230	X/LNP	.250 .500 .750
		PHI	
		.000	-.1720 -.1750
		90.000	-.1800 -.1750 -.1720
		135.000	-.1840 -.1830 -.1820
		180.000	.1100 -.0210 -.1840
		225.000	-.2080 -.1830 -.1890

DATE 28 SEP 77 TABULATED PRESSURE DATA - 1A98

AMES 97-707 1A9 OSA + S3 + T9 UPPER MPS NOZZLE

(F80024)

SECTION (1) MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.230
 X/LNF .250 .500 .750
 PHI 270.000 -0.1780 -0.1770 -0.1720

MACH (2) = 2.000 BETAT (4) = -3.160
 X/LNF .250 .500 .750
 PHI 1000 -0.1700 -0.1720
 90.000 -0.1740 -0.1720 -0.1730
 135.000 -0.2270 -0.1810 -0.1890
 180.000 -0.5940 -0.2800 -0.1780
 225.000 -0.2070 -0.1860 -0.1820
 270.000 -0.1750 -0.1730 -0.1680

MACH (2) = 2.000 BETAT (5) = 3.920
 X/LNF .250 .500 .750
 PHI 1000 -0.1750 -0.1790
 90.000 -0.1860 -0.1820 -0.1800
 135.000 -0.2250 -0.1950 -0.1940
 180.000 -0.5510 -0.4080 -0.1860
 225.000 -0.2010 -0.1970 -0.1940
 270.000 -0.1850 -0.1810 -0.1740

MACH (2) = 2.000 BETAT (6) = 5.960
 X/LNF .250 .500 .750
 PHI 1000 -0.1720 -0.1780
 90.000 -0.1820 -0.1780 -0.1780
 135.000 -0.2260 -0.1960 -0.1890
 180.000 -0.4480 -0.4230 -0.1900
 225.000 -0.1790 -0.2010 -0.1980
 270.000 -0.1880 -0.1800 -0.1730

MACH (2) = 2.000 BETAT (7) = 8.010
 X/LNF .250 .500 .750
 PHI 1000 -0.1670 -0.1710
 90.000 -0.1760 -0.1740 -0.1730
 135.000 -0.2140 -0.2030 -0.1770
 180.000 -0.5510 -0.6400 -0.1880
 225.000 -0.1580 -0.1860 -0.1920
 270.000 -0.1800 -0.1700 -0.1630

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 OGA + S3 + T9 UPPER MPS NOZZLE

(RBC025) (24 MAY 73)

REFERENCE DATA

SRPF = 2.4210 SQ.FT. XMRP = 20.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BRPF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBTNC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE
 MACH (1) = 1.555 BETAT (1) = -6.320

X/LNP	.250	.500	.750
PHI	.000	-.2450	-.2480
90.000	-.2490	-.2450	-.2480
135.000	-.2920	-.2670	-.2560
180.000	-.0850	-.0950	-.2650
225.000	-.2810	-.2670	-.2540
270.000	-.2560	-.2510	-.2510

MACH (1) = 1.555 BETAT (2) = -6.270

X/LNP	.250	.500	.750
PHI	.000	-.2330	-.2360
90.000	-.2360	-.2340	-.2370
135.000	-.2650	-.2500	-.2430
180.000	-.0080	-.0780	-.2540
225.000	-.2620	-.2620	-.2410
270.000	-.2420	-.2380	-.2380

MACH (1) = 1.555 BETAT (3) = -4.240

X/LNP	.250	.500	.750
PHI	.000	-.2360	-.2380
90.000	-.2370	-.2370	-.2390
135.000	-.2650	-.2460	-.2440
180.000	-.0860	-.1400	-.2480
225.000	-.2640	-.2490	-.2420
270.000	-.2440	-.2410	-.2410

MACH (1) = 1.555 BETAT (4) = -.130

X/LNP	.250	.500	.750
PHI	.000	-.2370	-.2370
90.000	-.2420	-.2410	-.2410
135.000	-.2470	-.2540	-.2470
180.000	-.0380	-.1260	-.2510
225.000	-.2560	-.2540	-.2430
270.000	-.2420	-.2380	-.2370

MACH (1) = 1.555 BETAT (5) = 3.950

X/LNP	.250	.500	.750
PHI	.000	-.2370	-.2370
90.000	-.2450	-.2420	-.2430
135.000	-.2610	-.2530	-.2440
180.000	-.1030	-.0880	-.2510
225.000	-.2720	-.2540	-.2430

DATE 21 SEP 72 TABULATED PRESSURE DATA - 1A95

(R80025)

AMES 97-757 1A9 O2A + S3 + 19 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.955 BETAT (5) = 3.950 X/LNP .250 .500 .750
PHI
270.000 - .2360 - .2340 - .2360

MACH (1) = 1.955 BETAT (6) = 5.990 X/LNP .250 .500 .750
PHI
- .2380 - .2400 - .2420
90.000 - .2480 - .2495 - .2470
135.000 - .2640 - .2730 - .2490
180.000 - .0510 - .0280 - .2590
225.000 - .2880 - .2611 - .2540
270.000 - .2420 - .2380 - .2360

MACH (1) = 1.955 BETAT (7) = 8.040 X/LNP .250 .500 .750
PHI
- .2390 - .2410 - .2410
90.000 - .2500 - .2460 - .2470
135.000 - .2750 - .2630 - .2490
180.000 - .0660 - .0460 - .2590
225.000 - .2900 - .2590 - .2490
270.000 - .2410 - .2370 - .2350

MACH (2) = 2.000 BETAT (1) = -8.290 X/LNP .250 .500 .750
PHI
- .1720 - .1720 - .1720
90.000 - .1730 - .1710 - .1730
135.000 - .1880 - .1790 - .1770
180.000 - .0390 - .0490 - .1870
225.000 - .1910 - .1850 - .1740
270.000 - .1780 - .1750 - .1710

MACH (2) = 2.000 BETAT (2) = -6.290 X/LNP .250 .500 .750
PHI
- .1710 - .1740 - .1740
90.000 - .1770 - .1730 - .1720
135.000 - .1860 - .1780 - .1790
180.000 - .0120 - .0490 - .1890
225.000 - .2050 - .1960 - .1780
270.000 - .1790 - .1770 - .1730

MACH (2) = 2.000 BETAT (3) = -4.210 X/LNP .250 .500 .750
PHI
- .1770 - .1790 - .1790
90.000 - .1830 - .1790 - .1790
135.000 - .2030 - .1890 - .1890
180.000 - .0470 - .0280 - .1950
225.000 - .2130 - .1890 - .1910

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B

AMES 97-707 IAS OCA + S3 + T9 UPPER NPS NOZZLE

(RECORDS)

SECTION (1) NPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.210
 X/LNP .250 .500 .750
 PHI
 270.000 -.1830 -.1820 -.1780

MACH (2) = 2.000 BETAT (4) = -.140
 X/LNP .250 .500 .750
 PHI
 .000 -.1760 -.1780
 90.000 -.1820 -.1810 -.1790
 135.000 -.2210 -.1880 -.1940
 180.000 .0440 .0220 -.1880
 225.000 -.2180 -.1920 -.1850
 270.000 -.1810 -.1790 -.1760

MACH (2) = 2.100 BETAT (5) = 3.950
 X/LNP .250 .500 .750
 PHI
 .000 -.1820 -.1840
 90.000 -.1890 -.1860 -.1850
 135.000 -.2280 -.1940 -.1960
 180.000 .0740 -.0030 -.1950
 225.000 -.2170 -.2110 -.1960
 270.000 -.1890 -.1850 -.1790

MACH (2) = 2.100 BETAT (6) = 8.020
 X/LNP .250 .500 .750
 PHI
 .000 -.1760 -.1780
 90.000 -.1840 -.1820 -.1830
 135.000 -.1990 -.1980 -.1830
 180.000 .0490 .0550 -.1980
 225.000 -.2140 -.1890 -.1980
 270.000 -.1920 -.1810 -.1740

DATE 21 SEP 73
 (RBC026) (24 MAY 73)

TABLATED PRESSURE DATA - 1A98

AMES 97-707 1A9 CEA + S3 + T9 UPPER MPS NOZZLE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = 1.0000 INCHES
 BREF = 39.8490 INCHES ZMRP = 1.0000 INCHES
 SCALE = .03000 SCALE

PARAMETRIC DATA

ALPHAT = 4.1400 ORBINC = 1.000
 RUDDER = 15.1400 ELEVON = 1.000
 RUOFLR = 1.000

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE

MACH (1) = 1.555 BETAT (1) = -8.300

X/LNP	.250	.500	.750
PHI			
.100	-.2530	-.2540	
.90.100	-.2570	-.2520	-.2550
135.100	-.2980	-.2790	-.2660
180.100	-.1790	-.2270	-.2640
225.100	-.2860	-.2670	-.2600
270.100	-.2590	-.2570	-.2570

MACH (1) = 1.555 BETAT (2) = -6.260

X/LNP	.250	.500	.750
PHI			
.100	-.2430	-.2460	
.90.100	-.2460	-.2440	-.2460
135.100	-.2730	-.2570	-.2570
180.100	-.1420	-.1980	-.2590
225.100	-.2720	-.2650	-.2510
270.100	-.2520	-.2470	-.2460

MACH (1) = 1.555 BETAT (3) = -4.220

X/LNP	.250	.500	.750
PHI			
.100	-.2420	-.2430	
.90.100	-.2440	-.2440	-.2430
135.100	-.2610	-.2540	-.2480
180.100	-.1430	-.1490	-.2550
225.100	-.2630	-.2590	-.2480
270.100	-.2490	-.2450	-.2440

MACH (1) = 1.555 BETAT (4) = -1.120

X/LNP	.250	.500	.750
PHI			
.100	-.2320	-.2320	
.90.100	-.2350	-.2340	-.2350
135.100	-.2320	-.2470	-.2370
180.100	-.1780	-.1710	-.2370
225.100	-.2410	-.2430	-.2350
270.100	-.2360	-.2340	-.2320

MACH (1) = 1.555 BETAT (5) = 3.980

X/LNP	.250	.500	.750
PHI			
.100	-.2460	-.2480	
.90.100	-.2550	-.2510	-.2520
135.100	-.2740	-.2670	-.2530
180.100	-.1750	-.1360	-.2580
225.100	-.2800	-.2620	-.2500

DATE 21 SEP 73

TABLATED PRESSURE DATA - 1A9B
 AMES 97-707 IAS O2A + S3 + T9 UPPER MPS NOZZLE

(RBC026)

SECTION (1) MPS NOZZLE
 DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.96U
 X/LNP PHI .25U .50U .75U
 270.00U -.248U -.246U -.244U

MACH (1) = 1.555 BETAT (6) = 6.01U
 X/LNP PHI .25U .50U .75U
 .00U -.233U -.253U
 90.00U -.261U -.259U -.260U
 135.00U -.281U -.277U -.282U
 180.00U -.087U -.082U -.069U
 225.00U -.294U -.279U -.262U
 270.00U -.255U -.252U -.251U

MACH (1) = 1.555 BETAT (7) = 8.05U
 X/LNP PHI .25U .50U .75U
 .00U -.251U -.252U
 90.00U -.262U -.259U -.259U
 135.00U -.279U -.268U -.260U
 180.00U -.103U -.064U -.267U
 225.00U -.295U -.279U -.259U
 270.00U -.254U -.249U -.249U

MACH (2) = 2.00U BETAT (1) = -6.28C
 X/LNP PHI .25U .50U .75U
 .00U -.177U -.178U
 90.00U -.189U -.183U -.182U
 135.00U -.194U -.172U -.185U
 180.00U -.195U -.023U -.193U
 225.00U -.214U -.188U -.182U
 270.00U -.186U -.183U -.179U

MACH (2) = 2.00U BETAT (2) = -6.23U
 X/LNP PHI .25U .50U .75U
 .00U -.184U -.181U
 90.00U -.184U -.182U -.182U
 135.00U -.203U -.184U -.194U
 180.00U -.069U -.055U -.196U
 225.00U -.207U -.195U -.186U
 270.00U -.188U -.185U -.182U

MACH (2) = 2.00U BETAT (3) = -4.20U
 X/LNP PHI .25U .50U .75U
 .00U -.183U -.184U
 90.00U -.186U -.185U -.185U
 135.00U -.221U -.195U -.192U
 180.00U .049U -.046U -.198U
 225.00U -.211U -.198U -.193U

ABLATED PRESSURE DATA - 1A99

AMES 97-7L7 1A9 OCA + S3 + T9 UPPER MPS NOZZLE

(RBOC26)

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE

MACH (2) = 2.000 BETAT (3) = -4.200 X/LNF .250 .500 .750
PHI 270.000 -.1890 -.1870 -.1840

MACH (2) = 2.000 BETAT (4) = -.120 X/LNF .250 .500 .750
PHI .000 -.1820 -.1830
90.000 -.1860 -.1840 -.1850
135.000 -.2030 -.1870 -.1970
180.000 .0140 -.0580 -.1920
225.000 -.2080 -.1970 -.1870
270.000 -.1850 -.1830 -.1810

MACH (2) = 2.000 BETAT (5) = 3.950 X/LNF .250 .500 .750
PHI .000 -.1940 -.1950
90.000 -.2120 -.1980 -.1990
135.000 -.2180 -.2110 -.2020
180.000 -.0230 -.1130 -.2060
225.000 -.2390 -.2180 -.2060
270.000 -.1980 -.1970 -.1910

MACH (2) = 2.000 BETAT (6) = 5.990 X/LNF .250 .500 .750
PHI .000 -.1850 -.1870
90.000 -.1910 -.1910 -.1920
135.000 -.2130 -.2050 -.1920
180.000 -.0750 -.0230 -.2030
225.000 -.2290 -.1960 -.2020
270.000 -.1940 -.1940 -.1850

MACH (2) = 2.000 BETAT (7) = 8.030 X/LNF .250 .500 .750
PHI .000 -.1910 -.1930
90.000 -.1980 -.1970 -.1970
135.000 -.2130 -.2110 -.1970
180.000 -.0300 -.0190 -.2100
225.000 -.2140 -.1990 -.2070
270.000 -.2030 -.1960 -.1880

AMES 97-737 IA9 O2A + S3 + T9 UPPER MPS NOZZLE

(RBC027) (24 MAY 73)

REFERENCE DATA

SREF = 2.4216 SQ.FT. XMRP = 28.5350 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0390 SCALE

PARAMETRIC DATA

ALPHAT = 6.0000 ORBINC = .0000
 RUDDER = 15.0000 ELEVON = .0000
 RUDFLR = .0000

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -6.330

X/LNP	.250	.500	.750
PHI			
.000	-.2630	-.2610	
90.000	-.2640	-.2610	-.2630
135.000	-.2930	-.2780	-.2710
180.000	-.1650	-.2400	-.2730
225.000	-.2890	-.2730	-.2670
270.000	-.2690	-.2650	-.2640

MACH (2) = 1.555 BETAT (2) = -6.270

X/LNP	.250	.500	.750
PHI			
.000	-.2520	-.2540	
90.000	-.2570	-.2550	-.2560
135.000	-.2780	-.2690	-.2620
180.000	-.1850	-.1440	-.2690
225.000	-.2800	-.2720	-.2570
270.000	-.2610	-.2570	-.2550

MACH (3) = 1.555 BETAT (3) = -4.230

X/LNP	.250	.500	.750
PHI			
.000	-.2420	-.2450	
90.000	-.2450	-.2430	-.2440
135.000	-.2670	-.2620	-.2500
180.000	-.1560	-.1420	-.2580
225.000	-.2670	-.2590	-.2500
270.000	-.2500	-.2480	-.2470

MACH (4) = 1.555 BETAT (4) = -3.110

X/LNP	.250	.500	.750
PHI			
.000	-.2340	-.2360	
90.000	-.2400	-.2400	-.2370
135.000	-.2360	-.2530	-.2390
180.000	-.1080	-.1930	-.2410
225.000	-.2440	-.2450	-.2400
270.000	-.2420	-.2410	-.2370

MACH (5) = 1.555 BETAT (5) = 3.990

X/LNP	.250	.500	.750
PHI			
.000	-.2470	-.2490	
90.000	-.2560	-.2540	-.2550
135.000	-.2680	-.2720	-.2560
180.000	-.1070	-.1320	-.2610
225.000	-.2770	-.2660	-.2540

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A99

(RBC027)

AMES 97-707 1A9 CGA + S3 + T9 UPPER MFS NOZZLE

DEPENDENT VARIABLE CP

SECTION (1) MFS NOZZLE

MACH (1) = 1.555 BETAT (5) = 3.990

X/LNP	PHI	.250	.500	.750
270.000		-.2510	-.2480	-.2480

MACH (1) = 1.555 BETAT (6) = 6.000

X/LNP	PHI	.250	.500	.750
.000		-.2530	-.2550	
90.000		-.2600	-.2580	-.2590
135.000		-.2780	-.2750	-.2600
180.000		-.1160	-.1940	-.2680
225.000		-.2880	-.2700	-.2600
270.000		-.2550	-.2530	-.2520

MACH (1) = 1.555 BETAT (7) = 8.000

X/LNP	PHI	.250	.500	.750
.000		-.2550	-.2570	
90.000		-.2660	-.2630	-.2610
135.000		-.2810	-.2680	-.2620
180.000		-.1530	-.1010	-.2700
225.000		-.2930	-.2690	-.2600
270.000		-.2570	-.2540	-.2530

MACH (2) = 2.000 BETAT (1) = -8.000

X/LNP	PHI	.250	.500	.750
.000		-.1800	-.1820	
90.000		-.1960	-.1870	-.1860
135.000		-.1920	-.1760	-.1880
180.000		-.1220	-.1630	-.1960
225.000		-.2160	-.1940	-.1860
270.000		-.1870	-.1850	-.1820

MACH (2) = 2.000 BETAT (2) = -6.250

X/LNP	PHI	.250	.500	.750
.000		-.1840	-.1850	
90.000		-.1930	-.1880	-.1860
135.000		-.1970	-.1820	-.1980
180.000		-.1860	-.1710	-.1990
225.000		-.2150	-.2120	-.1890
270.000		-.1910	-.1880	-.1850

MACH (2) = 2.000 BETAT (3) = -4.250

X/LNP	PHI	.250	.500	.750
.000		-.1860	-.1870	
90.000		-.1880	-.1880	-.1880
135.000		-.2250	-.1970	-.1960
180.000		-.1910	-.1670	-.2040
225.000		-.2110	-.1990	-.1960

AMES 97-707 1A9 CEA + S3 + T9 UPPER MPS NOZZLE

(R50027)

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.250
 X/LNP .250 .500 .750
 PHI
 270.000 -.1910 -.1890 -.1850

MACH (2) = 2.000 BETAT (4) = -3.120
 X/LNP .250 .500 .750
 PHI
 .000 -.1840 -.1850
 90.000 -.1870 -.1870 -.1860
 135.000 -.1980 -.1830 -.1970
 180.000 -.1740 -.1850 -.1960
 225.000 -.2140 -.2030 -.1880
 270.000 -.1870 -.1870 -.1830

MACH (2) = 2.000 BETAT (5) = 3.970
 X/LNP .250 .500 .750
 PHI
 .000 -.1940 -.1960
 90.000 -.2020 -.1990 -.2010
 135.000 -.2200 -.2130 -.2020
 180.000 -.1410 -.1310 -.2080
 225.000 -.2380 -.2190 -.2080
 270.000 -.2010 -.1990 -.1940

MACH (2) = 2.000 BETAT (6) = 6.030
 X/LNP .250 .500 .750
 PHI
 .000 -.1920 -.1920
 90.000 -.1960 -.1960 -.1960
 135.000 -.2160 -.2110 -.1980
 180.000 -.1050 -.1080 -.2070
 225.000 -.2310 -.2170 -.2160
 270.000 -.1990 -.1950 -.1890

MACH (2) = 2.000 BETAT (7) = 8.070
 X/LNP .250 .500 .750
 PHI
 .000 -.1950 -.1970
 90.000 -.2010 -.2110 -.2010
 135.000 -.2140 -.2140 -.2010
 180.000 -.0560 -.1260 -.2130
 225.000 -.2230 -.1980 -.2070
 270.000 -.2050 -.2040 -.1920

DATE 21 SEP 73 (RUC028) (24 MAY 73

TABULATED PRESSURE DATA - 1A9B
 AVES 97-707 1A9 O2A + S3 + T9 UPPER MFS NOZZLE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .00000 SCALE

PARAMETRIC DATA

ALPHAT = 8.0000 ORBINC = .0000
 RUDDER = 15.0000 ELEVON = .0000
 RUDDFLR = .0000

DEPENDENT VARIABLE CP

SECTION (1) MFS NOZZLE

MACH (1) = 1.555	BETAT (1) = -8.350	X/LNF	PHI	.250	.500	.750
		.100		-.2650	-.2670	
		90.000		-.2740	-.2710	-.2710
		135.000		-.2920	-.2740	-.2720
		180.000		-.2070	-.2500	-.2770
		225.000		-.2920	-.2730	-.2720
		270.000		-.2740	-.2710	-.2690

MACH (1) = 1.555 BETAT (2) = -6.300

X/LNF	PHI	.250	.500	.750
.100		-.2540	-.2570	
90.000		-.2610	-.2590	-.2570
135.000		-.2720	-.2630	-.2610
180.000		-.1220	-.1740	-.2700
225.000		-.2760	-.2670	-.2610
270.000		-.2640	-.2640	-.2590

MACH (1) = 1.555 BETAT (3) = -4.230

X/LNF	PHI	.250	.500	.750
.100		-.2440	-.2470	
90.000		-.2500	-.2470	-.2470
135.000		-.2510	-.2640	-.2560
180.000		-.1670	-.1540	-.2610
225.000		-.2660	-.2630	-.2540
270.000		-.2520	-.2500	-.2500

MACH (1) = 1.555 BETAT (4) = -1.110

X/LNF	PHI	.250	.500	.750
.100		-.2360	-.2360	
90.000		-.2420	-.2390	-.2390
135.000		-.2380	-.2500	-.2410
180.000		-.1100	-.2170	-.2410
225.000		-.2450	-.2420	-.2390
270.000		-.2430	-.2390	-.2380

MACH (1) = 1.555 BETAT (5) = 4.000

X/LNF	PHI	.250	.500	.750
.100		-.2510	-.2520	
90.000		-.2590	-.2570	-.2580
135.000		-.2650	-.2730	-.2590
180.000		-.1010	-.1440	-.2630
225.000		-.2780	-.2640	-.2550

DATE 21 SEP 73

TABLULATED PRESSURE DATA - 1A98
 AMES 97-707 IAS OCA + S3 + T9 UPPER MFS NOZZLE

(RBC028)

SECTION (1) 1MPS NOZZLE
 DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 4.1430
 X/LNF .250 .500 .750
 PHI 270.000 -0.2540 -0.2510 -0.2490

MACH (1) = 1.555 BETAT (6) = 6.1680
 X/LNF .250 .500 .750
 PHI .000 -0.2550 -0.2580
 90.000 -0.2650 -0.2630 -0.2630
 135.000 -0.2830 -0.2720 -0.2630
 180.000 -0.1580 -0.1360 -0.2710
 225.000 -0.2940 -0.2670 -0.2630
 270.000 -0.2610 -0.2590 -0.2560

MACH (1) = 1.555 BETAT (7) = 8.1300
 X/LNF .250 .500 .750
 PHI .000 -0.2640 -0.2590
 90.000 -0.2740 -0.2650 -0.2630
 135.000 -0.2840 -0.2680 -0.2640
 180.000 -0.2140 -0.1520 -0.2710
 225.000 -0.3070 -0.2630 -0.2630
 270.000 -0.2640 -0.2610 -0.2590

MACH (2) = 2.000 BETAT (1) = -8.320
 X/LNF .250 .500 .750
 PHI .000 -0.1790 -0.1810
 90.000 -0.1940 -0.1850 -0.1830
 135.000 -0.1920 -0.1690 -0.1890
 180.000 -0.1480 -0.1670 -0.1940
 225.000 -0.2160 -0.1880 -0.1850
 270.000 -0.1860 -0.1850 -0.1810

MACH (2) = 2.000 BETAT (2) = -6.260
 X/LNF .250 .500 .750
 PHI .000 -0.1860 -0.1870
 90.000 -0.1990 -0.1940 -0.1890
 135.000 -0.2140 -0.1840 -0.1960
 180.000 -0.1800 -0.1680 -0.1990
 225.000 -0.2130 -0.2020 -0.1910
 270.000 -0.1940 -0.1880 -0.1860

MACH (2) = 2.000 BETAT (3) = -4.210
 X/LNF .250 .500 .750
 PHI .000 -0.1860 -0.1880
 90.000 -0.1930 -0.1890 -0.1880
 135.000 -0.1950 -0.1980 -0.1980
 180.000 -0.1410 -0.1750 -0.1990
 225.000 -0.2070 -0.2000 -0.1940

DATE 21 SEP 73

COMPUTED PRESSURE DATA - 1A98
 AMES 97-707 1A9 OZA + S3 + T9 UPPER MPS NOZZLE

(R80028)

SECTION (1) MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.210
 X/LNF .250 .500 .750
 PHI
 270.000 -.1910 -.1890 -.1860

MACH (2) = 2.000 BETAT (4) = -3.110
 X/LNF .250 .500 .750
 PHI
 .000 -.1880 -.1900
 90.000 -.1900 -.1890 -.1910
 135.000 -.2040 -.1870 -.1990
 180.000 -.0150 -.1950 -.2000
 225.000 -.2140 -.2020 -.1920
 270.000 -.1920 -.1910 -.1870

MACH (2) = 2.000 BETAT (5) = 3.990
 X/LNF .250 .500 .750
 PHI
 .000 -.1990 -.2000
 90.000 -.2040 -.2020 -.2030
 135.000 -.2220 -.2150 -.2070
 180.000 -.0840 -.1080 -.2110
 225.000 -.2210 -.2140 -.2130
 270.000 -.2070 -.2000 -.1970

MACH (2) = 2.000 BETAT (6) = 6.050
 X/LNF .250 .500 .750
 PHI
 .000 -.1890 -.1910
 90.000 -.1950 -.1940 -.1940
 135.000 -.2130 -.2050 -.1950
 180.000 -.1190 -.1020 -.2050
 225.000 -.2250 -.1950 -.2000
 270.000 -.2020 -.1940 -.1880

MACH (2) = 2.000 BETAT (7) = 8.110
 X/LNF .250 .500 .750
 PHI
 .000 -.1920 -.1930
 90.000 -.1970 -.1970 -.1980
 135.000 -.2070 -.2100 -.1990
 180.000 -.1090 -.1090 -.2060
 225.000 -.2210 -.1940 -.2010
 270.000 -.2040 -.1940 -.1880

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1A9B
 AMES 97-707 IAS OEA + S3 + T9 OMS NOZZLE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0350 SCALE

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE	MACH (1) = 1.555	ALPHAT(1) = -8.400	X/LNM	PHI
			.200	.400
			.135.000	.1360
			.180.000	-.3560
			.225.000	-.2550
			X/LNM	.200
			.135.000	.0720
			.180.000	.2790
			.225.000	-.1020
			X/LNM	.200
			.135.000	.0570
			.180.000	.2040
			.225.000	-.1380
			X/LNM	.200
			.135.000	.1460
			.180.000	.1680
			.225.000	-.2620
			X/LNM	.200
			.135.000	.0310
			.180.000	.1220
			.225.000	-.1660
			X/LNM	.200
			.135.000	-.1490
			.180.000	.0550
			.225.000	-.2560
			X/LNM	.200
			.135.000	-.1430
			.180.000	-.1480
			.225.000	-.2910

PARAMETRIC DATA

BETAT = .0000 ORBINC = .5000
 RUDDER = .0000 ELEVON = .0000
 RUDFLR = .0000

DATE 21 SEP 73

TABLATED PRESSURE DATA - 1A9B
 AMES 97-707 IAS OCA + S3 + T9 OMS NOZZLE

(RBOE:1)

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.555	ALPHAT(8) = 6.060	X/LNM	.200	.400
		PHI		
		135.000	-.0830	
		180.000	-.0390	-.1960
		225.000	-.2570	
MACH (1) = 1.555	ALPHAT(9) = 8.130	X/LNM	.200	.400
		PHI		
		135.000	-.0980	
		180.000	-.0740	-.2150
		225.000	-.2480	
MACH (2) = 2.000	ALPHAT(1) = -8.360	X/LNM	.200	.400
		PHI		
		135.000	.3910	
		180.000	.4550	.3520
		225.000	-.0630	
MACH (2) = 2.000	ALPHAT(2) = -6.310	X/LNM	.200	.400
		PHI		
		135.000	.3650	
		180.000	.4340	.2920
		225.000	-.0880	
MACH (2) = 2.000	ALPHAT(3) = -4.250	X/LNM	.200	.400
		PHI		
		135.000	.3460	
		180.000	.3980	.2400
		225.000	-.1070	
MACH (2) = 2.000	ALPHAT(4) = -2.210	X/LNM	.200	.400
		PHI		
		135.000	.3280	
		180.000	.3660	.1970
		225.000	-.1230	
MACH (2) = 2.000	ALPHAT(5) = -.160	X/LNM	.200	.400
		PHI		
		135.000	.2960	
		180.000	.3120	.1610
		225.000	-.1320	
MACH (2) = 2.000	ALPHAT(6) = 1.690	X/LNM	.200	.400
		PHI		
		135.000	.2430	
		180.000	.2540	.1030
		225.000	-.1420	

(RBCU11)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98
AMES 97-757 1A9 O2A + S3 + T9 OMS NOZZLE

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE

MACH (2) = 2.000 ALPHAT (7) = 3.930
X/LNM .200 .400
PHI
135.000 .1680
180.000 .1770 .0670
225.000 -.1510

MACH (2) = 2.000 ALPHAT (8) = 5.980

X/LNM .200 .400
PHI
135.000 .1450
180.000 .1330 .0390
225.000 -.1470

MACH (2) = 2.000 ALPHAT (9) = 8.020

X/LNM .200 .400
PHI
135.000 .2030
180.000 .1470 .0170
225.000 -.1460

REFERENCE DATA
 SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .03000 SCALE

PARAMETRIC DATA
 ALPHAT = 8.0000 ORBINC = .5000
 RUDDER = 0.0000 ELEVON = .0000
 RUDFLR = 0.0000

SECTION (1) OMS NOZZLE	DEPENDENT VARIABLE CP		
MACH (1) = 1.555 BETAT (1) = -7.140	X/LNM	.200	.400
	PHI	.1450	
	135.000	.3090	-.0490
	180.000	-.2580	
	225.000		
MACH (1) = 1.555 BETAT (2) = -5.100	X/LNM	.200	.400
	PHI	.0910	
	135.000	.2770	-.0960
	180.000	-.2680	
	225.000		
MACH (1) = 1.555 BETAT (3) = -3.050	X/LNM	.200	.400
	PHI	.0620	
	135.000	.1590	-.1430
	180.000	-.2630	
	225.000		
MACH (1) = 1.555 BETAT (4) = 5.110	X/LNM	.200	.400
	PHI	-.0770	
	135.000	-.0460	-.2130
	180.000	-.2780	
	225.000		
MACH (1) = 1.555 BETAT (5) = 7.140	X/LNM	.200	.400
	PHI	-.1690	
	135.000	-.1230	-.2490
	180.000	-.2790	
	225.000		
MACH (1) = 1.555 BETAT (6) = 9.190	X/LNM	.200	.400
	PHI	-.2480	
	135.000	-.2470	-.2680
	180.000	-.2730	
	225.000		
MACH (2) = 2.000 BETAT (1) = -6.320	X/LNM	.200	.400
	PHI	-.1390	
	135.000	.1140	-.1020
	180.000	-.1990	
	225.000		

(RBCE)2

DATE 21 SEP 75 TABULATED PRESSURE DATA - 1A9B
 AMES 97-757 1A9 ORA + S3 + T9 OMS NOZZLE

SECTION (1) OMS NOZZLE		DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (2) = -6.270	X/LNM .200	.400
		PHI	
		135.000	-.0080
		180.000	.0930
		225.000	-.0940
MACH (2) = 2.000	BETAT (3) = -4.210	X/LNM .200	.400
		PHI	
		135.000	.0570
		180.000	.2230
		225.000	-.0720
MACH (2) = 2.000	BETAT (4) = 3.990	X/LNM .200	.400
		PHI	
		135.000	.0200
		180.000	.1460
		225.000	-.1920
MACH (2) = 2.000	BETAT (5) = 6.060	X/LNM .200	.400
		PHI	
		135.000	-.0230
		180.000	.0480
		225.000	-.2140
MACH (2) = 2.000	BETAT (6) = 6.120	X/LNM .200	.400
		PHI	
		135.000	.1340
		180.000	-.0580
		225.000	-.2160

AMES 97-707 IA9 C2A + S3 + T9 OMS NOZZLE

(RBOE03) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0400 INCHES
 BREF = 39.8490 INCHES ZMRP = .0400 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.0000 ORBINC = .5000
 RUDDER = .0000 ELEVON = .0000
 RUDCLR = .1000

SECTION (1) OMS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.120
 X/LNM .200 .400
 PHI
 135.000 .2560
 180.000 .3700 .0960
 225.000 -.2050

MACH (1) = 1.555 BETAT (2) = -5.070
 X/LNM .200 .400
 PHI
 135.000 .2040
 180.000 .3010 -.0280
 225.000 -.2480

MACH (1) = 1.555 BETAT (3) = -3.020
 X/LNM .200 .400
 PHI
 135.000 .1450
 180.000 .1650 -.1270
 225.000 -.2640

MACH (1) = 1.555 BETAT (4) = 5.080
 X/LNM .200 .400
 PHI
 135.000 -.1640
 180.000 .0260 -.2030
 225.000 -.2710

MACH (1) = 1.555 BETAT (5) = 7.110
 X/LNM .200 .400
 PHI
 135.000 -.1910
 180.000 -.0880 -.2430
 225.000 -.2750

MACH (1) = 1.555 BETAT (6) = 9.140
 X/LNM .200 .400
 PHI
 135.000 -.2470
 180.000 -.2530 -.2630
 225.000 -.2690

MACH (2) = 2.000 BETAT (1) = -8.300
 X/LNM .200 .400
 PHI
 135.000 -.1600
 180.000 .0110 -.0790
 225.000 .0320

AMES 97-757 1A9 O2A + S3 + T9 OHS NOZZLE

(RBOEUS)

SECTION (1) OHS NOZZLE	DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (2) = -6.250	
	X/LNM	.200 .400
	PHI	
	135.000	.0910
	180.000	.0640
	225.000	.0360
MACH (2) = 2.000	BETAT (3) = -4.200	
	X/LNM	.200 .400
	PHI	
	135.000	.1410
	180.000	.2970
	225.000	-.0520
MACH (2) = 2.000	BETAT (4) = 3.970	
	X/LNM	.200 .400
	PHI	
	135.000	.0070
	180.000	.1710
	225.000	-.1880
MACH (2) = 2.000	BETAT (5) = 6.030	
	X/LNM	.200 .400
	PHI	
	135.000	-.0110
	180.000	.0550
	225.000	-.2010
MACH (2) = 2.000	BETAT (6) = 8.080	
	X/LNM	.200 .400
	PHI	
	135.000	.0580
	180.000	-.1150
	225.000	-.2070

(R00314) (24 MAY 73)

TABULATED PRESSURE DATA - IA9B
 APES 97-707 IA9 OEA + S3 + T9 OMS NOZZLE

DATE 21 SEP 73

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDDLR = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0310 SCALE

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE	MACH (1) = 1.555	BETAT (1) = -7.090	X/LNM	PHI
			.200	.400
			135.000	.3890
			180.000	.4130
			225.000	-.2020
				.1840
SECTION (2) OMS NOZZLE	MACH (1) = 1.555	BETAT (2) = -5.070	X/LNM	PHI
			.200	.400
			135.000	.2890
			180.000	.3190
			225.000	-.2460
				-.0190
SECTION (3) OMS NOZZLE	MACH (1) = 1.555	BETAT (3) = -3.040	X/LNM	PHI
			.200	.400
			135.000	.1840
			180.000	.1870
			225.000	-.2660
				-.1170
SECTION (4) OMS NOZZLE	MACH (1) = 1.555	BETAT (4) = 5.060	X/LNM	PHI
			.200	.400
			135.000	-.0680
			180.000	.0170
			225.000	-.2720
				-.2080
SECTION (5) OMS NOZZLE	MACH (1) = 1.555	BETAT (5) = 7.080	X/LNM	PHI
			.200	.400
			135.000	-.1880
			180.000	-.0570
			225.000	-.2720
				-.2370
SECTION (6) OMS NOZZLE	MACH (1) = 1.555	BETAT (6) = 9.100	X/LNM	PHI
			.200	.400
			135.000	-.2260
			180.000	-.2130
			225.000	-.2670
				-.2630
SECTION (7) OMS NOZZLE	MACH (2) = 2.000	BETAT (1) = -8.270	X/LNM	PHI
			.200	.400
			135.000	.0840
			180.000	.0180
			225.000	.0960

(R8001-4)

DATE 21 SEP 73
 TABULATED PRESSURE DATA - IASB
 AMES 97-707 IAG OEA + S3 + T9 OMS NOZZLE

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE

MACH (2) = 2.000 BETAT (2) = -6.240

X/LNM	PHI	CP
135.000	.1310	.400
180.000	.1960	.5100
225.000	.0430	

MACH (2) = 2.000 BETAT (3) = -4.200

X/LNM	PHI	CP
135.000	.2110	.400
180.000	.3110	.3910
225.000	-.0370	

MACH (2) = 2.000 BETAT (4) = 3.950

X/LNM	PHI	CP
135.000	.0040	.400
180.000	.1970	-.0730
225.000	-.1840	

MACH (2) = 2.000 BETAT (5) = 5.990

X/LNM	PHI	CP
135.000	-.0400	.400
180.000	.0740	-.1200
225.000	-.2140	

MACH (2) = 2.000 BETAT (6) = 8.030

X/LNM	PHI	CP
135.000	-.10870	.400
180.000	-.05020	-.1770
225.000	-.2170	

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1A9B
 AMES 97-71.7 1A9 OEA + S3 + T9 OMS NOZZLE

REFERENCE DATA
 SREF = 2.4210 SQ.FT. XMRP = 20.5310 INCHES
 LREF = 39.8490 INCHES YMRP = 1.0000 INCHES
 BREF = 39.8490 INCHES ZMRP = 1.0000 INCHES
 SCALE = .0314 SCALE

PARAMETRIC DATA
 ALPHAT = 2.1400 OFSINC = .5000
 RUDER = .1400 ELEVON = .1000
 RUDER = .1400

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.100

X/LNM	PHI	CP
.200	.400	.400
.435	.435	.435
.435	.435	.2750
.172	-.172	

MACH (1) = 1.555 BETAT (2) = -5.070

X/LNM	PHI	CP
.200	.400	.400
.300	.300	
.371	.371	.1460
.238	-.238	

MACH (1) = 1.555 BETAT (3) = -3.050

X/LNM	PHI	CP
.200	.400	.400
.251	.251	
.255	.255	-.1640
.256	-.256	

MACH (1) = 1.555 BETAT (4) = 5.050

X/LNM	PHI	CP
.200	.400	.400
.177	-.177	
.129	-.129	-.2180
.272	-.272	

MACH (1) = 1.555 BETAT (5) = 7.070

X/LNM	PHI	CP
.200	.400	.400
.196	-.196	
.143	-.143	-.2310
.265	-.265	

MACH (1) = 1.555 BETAT (6) = 9.090

X/LNM	PHI	CP
.200	.400	.400
.242	-.242	
.186	-.186	-.2620
.264	-.264	

MACH (2) = 2.100 BETAT (1) = -8.280

X/LNM	PHI	CP
.200	.400	.400
.116	.116	
.137	.137	.3760
.187	.187	

(R50E15)

DATE 21 SEP 75 TABULATED PRESSURE DATA - 1A98
 AMES 97-717 1A9 OZA + S3 + T9 OMS NOZZLE

SECTION (1) OMS NOZZLE	DEPENDENT VARIABLE CP	
MACH (2) = 2.000 BETAT (2) = -6.250	X/LNM	.200 .400
	PHI	135.000 .1970
		180.000 .2710
		225.000 .5650
MACH (2) = 2.000 BETAT (3) = -4.140	X/LNM	.200 .400
	PHI	135.000 .2880
		180.000 .3370
		225.000 -.0360
MACH (2) = 2.000 BETAT (4) = 3.940	X/LNM	.200 .400
	PHI	135.000 .0280
		180.000 .2110
		225.000 -.1790
MACH (2) = 2.000 BETAT (5) = 5.980	X/LNM	.200 .400
	PHI	135.000 -.0630
		180.000 .0640
		225.000 -.1210
MACH (2) = 2.000 BETAT (6) = 8.020	X/LNM	.200 .400
	PHI	135.000 -.1260
		180.000 -.0420
		225.000 -.1690

PARAMETRIC DATA

ALPHAT = .000
 RUDDER = .000
 RUDDLR = .000
 OEBINC = .500
 ELEVON = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT.
 LREF = 39.8490 INCHES
 BREF = 39.8490 INCHES
 SCALE = .0314 SCALE
 XMRP = 28.5300 INCHES
 YMRP = .0000 INCHES
 ZMRP = .0000 INCHES

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE	MACH (1)	BETAT (1)	X/LNM	PHI	CP
MACH (1) = 1.555	BETAT (1) = -7.100		X/LNM	.200	.400
			PHI		
			135.000	.5400	
MACH (1) = 1.555	BETAT (2) = -5.000		X/LNM	.200	.400
			PHI		
			135.000	.4710	
MACH (1) = 1.555	BETAT (3) = -3.000		X/LNM	.200	.400
			PHI		
			135.000	.3970	
MACH (1) = 1.555	BETAT (4) = 5.000		X/LNM	.200	.400
			PHI		
			135.000	.3350	
MACH (1) = 1.555	BETAT (5) = 7.000		X/LNM	.200	.400
			PHI		
			135.000	.1880	
MACH (1) = 1.555	BETAT (6) = 9.000		X/LNM	.200	.400
			PHI		
			135.000	.2190	
MACH (2) = 2.000	BETAT (1) = -8.250		X/LNM	.200	.400
			PHI		
			135.000	.2180	
MACH (2) = 2.000	BETAT (1) = -6.250		X/LNM	.200	.400
			PHI		
			135.000	.2120	
MACH (2) = 2.000	BETAT (1) = -4.250		X/LNM	.200	.400
			PHI		
			135.000	.2120	
MACH (2) = 2.000	BETAT (1) = -2.250		X/LNM	.200	.400
			PHI		
			135.000	.2120	

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 ORA + S3 + 19 OMS NOZZLE

(SHEET 6)

SECTION (1) OMS NOZZLE	DEPENDENT VARIABLE CP	
MACH (2) = 2.1000 BETAT (2) = -6.250	X/LNM	.200
	PHI	.400
	135.1000	.2770
	180.1000	.3500
	225.1000	.6010
MACH (2) = 2.1000 BETAT (3) = -.130	X/LNM	.210
	PHI	.400
	135.1000	.2780
	180.1000	.3240
	225.1000	-.1430
MACH (2) = 2.1000 BETAT (4) = 3.950	X/LNM	.210
	PHI	.400
	135.1000	-.1040
	180.1000	.2070
	225.1000	-.1720
MACH (2) = 2.0000 BETAT (5) = 5.980	X/LNM	.230
	PHI	.400
	135.1000	-.1030
	180.1000	.0610
	225.1000	-.1960

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

AVES 97-71.7 1A9 OCA + S3 + T9 OMS NOZZLE

(RBOE17) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUFFLR = .000

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.110 X/LNM .200 .400
PHI
135.000 .6220
180.000 .4950 .4210
225.000 -.1480

MACH (1) = 1.555 BETAT (2) = -5.090 X/LNM .200 .400
PHI
135.000 .5740
180.000 .4670 .2200
225.000 -.1940

MACH (1) = 1.555 BETAT (3) = -3.070 X/LNM .200 .400
PHI
135.000 .4310
180.000 .3910 -.0010
225.000 -.2500

MACH (1) = 1.555 BETAT (4) = 5.040 X/LNM .200 .400
PHI
135.000 -.1690
180.000 .0420 -.2100
225.000 -.2640

MACH (1) = 1.555 BETAT (5) = 7.060 X/LNM .200 .400
PHI
135.000 -.2180
180.000 -.0310 -.2210
225.000 -.2550

MACH (1) = 1.555 BETAT (6) = 9.080 X/LNM .200 .400
PHI
135.000 -.2370
180.000 .1590 -.2400
225.000 .2430

MACH (2) = 2.040 BETAT (1) = -8.310 X/LNM .200 .400
PHI
135.000 .2950
180.000 .3140 .4760
225.000 .0680

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A99

(RDCCL7)

AMES 97-707 1A9 OZA - S3 - T9 OMS NOZZLE

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE

MACH (2) = 2.000 BETAT (2) = -6.260

X/LNM	PHI	CP
135.140	.3320	.400
180.140	.4160	.6200
225.140	.0900	

MACH (2) = 2.000 BETAT (3) = -4.230

X/LNM	PHI	CP
135.140	.4380	
180.140	.3970	.6320
225.140	.0290	

MACH (2) = 2.000 BETAT (4) = 3.940

X/LNM	PHI	CP
135.140	-.0390	
180.140	.2090	-.0560
225.140	-.1670	

MACH (2) = 2.000 BETAT (5) = 5.970

X/LNM	PHI	CP
135.140	-.1190	
180.140	.1040	-.0990
225.140	-.1860	

MACH (2) = 2.000 BETAT (6) = 8.000

X/LNM	PHI	CP
135.140	-.1230	
180.140	.0480	-.1340
225.140	-.1960	

(RBC018) (24 MAY 73)

TABLULATED PRESSURE DATA - 1A9B
 AMES 97-707 1A9 O2A + S3 + T9 OMS NOZZLE

DATE 21 SEP 73

PARAMETRIC DATA

ALPHAT = -4.0000 ORBINC = .5000
 RUDDER = .0000 ELEVON = .0000
 RUDEFL = .0000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE	MACH (1) = 1.555	BETAT (1) = -8.130	X/LNM	PHI
			.200	.400
			135.000	.7050
			180.000	.4980
			225.000	-.0810
			X/LNM	.200
			PHI	.6800
			135.000	.5270
			180.000	.4480
			225.000	-.1340
			X/LNM	.200
			PHI	.400
			135.000	.4810
			180.000	.4380
			225.000	-.2370
			X/LNM	.200
			PHI	.400
			135.000	-.1520
			180.000	-.0200
			225.000	-.2540
			X/LNM	.200
			PHI	.400
			135.000	-.2180
			180.000	-.0280
			225.000	-.2440
			X/LNM	.200
			PHI	.400
			135.000	-.2310
			180.000	-.1640
			225.000	-.2390
			X/LNM	.200
			PHI	.400
			135.000	.3570
			180.000	.4190
			225.000	.5550

MACH (1) = 1.555 BETAT (2) = -6.150

MACH (1) = 1.555 BETAT (3) = -3.070

MACH (1) = 1.555 BETAT (4) = 5.030

MACH (1) = 1.555 BETAT (5) = 7.050

MACH (1) = 1.555 BETAT (6) = 9.070

MACH (2) = 2.000 BETAT (1) = -8.310

(RBCDUS)

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 O2A + S3 + T9 OMS NOZZLE

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE

MACH (2) = 2.000 BETAT (2) = -6.270
 X/LNM .200 .400
 PHI
 135.000 .4220
 180.000 .4650
 225.000 .0330

MACH (2) = 2.000 BETAT (3) = -4.230
 X/LNM .200 .400
 PHI
 135.000 .5120
 180.000 .4140
 225.000 .0410

MACH (2) = 2.000 BETAT (4) = 3.920
 X/LNM .200 .400
 PHI
 135.000 -.1020
 180.000 .2440
 225.000 -.1590

MACH (2) = 2.000 BETAT (5) = 5.980
 X/LNM .200 .400
 PHI
 135.000 -.1110
 180.000 .1410
 225.000 -.1030

MACH (2) = 2.000 BETAT (6) = 8.010
 X/LNM .200 .400
 PHI
 135.000 -.1110
 180.000 .0470
 225.000 -.1960

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B
AWES 97-717 1A9 OZA + S3 + T9 OWS NOZZLE

(RBC:01) 24 MAY 73

REFERENCE DATA

BREF = 2.4210 SQ.FT. XMRP = 28.5310 INCHES
LREF = 39.8490 INCHES YMRP = 10.000 INCHES
BREF = 39.8490 INCHES ZMRP = 10.000 INCHES
SCALE = .0310 SCALE

PARAMETRIC DATA

ALPHA = -5.000 DBEINC = .500
RHO = .000 ELEVON = .000
BETA = .000

SECTION (1) OWS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -0.161
X/LNM .200 .400
PHI
135.140 .7770
180.140 .5090 .7450
225.140 -.0380

MACH (1) = 1.555 BETAT (2) = -6.170
X/LNM .200 .400
PHI
135.140 .7710
180.140 .5490 .5750
225.140 -.1050

MACH (1) = 1.555 BETAT (3) = -4.180
X/LNM .200 .400
PHI
135.140 .6560
180.140 .5270 .2160
225.140 -.1920

MACH (1) = 1.555 BETAT (4) = 3.640
X/LNM .200 .400
PHI
135.140 -.1920
180.140 -.0390 -.2220
225.140 -.2420

MACH (1) = 1.555 BETAT (5) = 5.690
X/LNM .200 .400
PHI
135.140 -.1740
180.140 .0280 -.1990
225.140 -.2460

MACH (1) = 1.555 BETAT (6) = 7.740
X/LNM .200 .400
PHI
135.140 -.2220
180.140 -.0920 -.2180
225.140 -.2320

MACH (2) = 2.162 BETAT (1) = -6.340
X/LNM .200 .400
PHI
135.140 .4140
180.140 .5270 .6510
225.140 .0640

(RBC1-9)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98
 AMES 97-737 1A9 OEA + S3 + T9 QMS NOZZLE

SECTION (1) OMS NOZZLE	DEPENDENT VARIABLE C _e	
MACH (2) = 2.000 BETAT (2) = -6.300	X/LNM	.200 .400
	PHI	
	135.000	.5390
	180.000	.4760
	225.000	.0390
MACH (2) = 2.000 BETAT (3) = -4.250	X/LNM	.200 .400
	PHI	
	135.000	.5670
	180.000	.4280
	225.000	.0590
MACH (2) = 2.000 BETAT (4) = 3.930	X/LNM	.200 .400
	PHI	
	135.000	.0090
	180.000	.2880
	225.000	-.1440
MACH (2) = 2.000 BETAT (5) = 8.020	X/LNM	.200 .400
	PHI	
	135.000	-.0890
	180.000	.1160
	225.000	-.1800

(RBC610) (24 MAY 73)

DATE 21 SEP '73 TABULATED PRESSURE DATA - IA9B
 AWES 97-707 1A9 ORA + S3 + T9 OMS NOZZLE

PARAMETRIC DATA
 ALPHAT = -8.0000 ORBINC = .5000
 RUDDER = .0000 ELEWON = .0000
 RUDFLR = .0000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE	MACH (1) = 1.555	BETAT (1) = -8.200	X/LNM	PHI	X/LNM	PHI
			.200	.400	.200	.400
			135.000	.8070	135.000	.7920
			180.000	.5070	180.000	.5530
			225.000	-.0320	225.000	-.0720
					.200	.400
			X/LNM	PHI	X/LNM	PHI
			.200	.400	.200	.400
			135.000	.7000	135.000	.5680
			180.000	.5680	180.000	-.1720
			225.000	-.1720	225.000	.400
			X/LNM	PHI	X/LNM	PHI
			.200	.400	.200	.400
			135.000	-.1910	135.000	-.2100
			180.000	-.0150	180.000	-.2380
			225.000	-.2380	225.000	.400
			X/LNM	PHI	X/LNM	PHI
			.200	.400	.200	.400
			135.000	-.1710	135.000	.1940
			180.000	.0420	180.000	-.2250
			225.000	-.2390	225.000	.400
			X/LNM	PHI	X/LNM	PHI
			.200	.400	.200	.400
			135.000	-.2180	135.000	-.2110
			180.000	-.1850	180.000	-.2250
			225.000	-.2250	225.000	.400
			X/LNM	PHI	X/LNM	PHI
			.200	.400	.200	.400
			135.000	.4440	135.000	.5870
			180.000	.5870	180.000	.7390
			225.000	.0580	225.000	.0580

MACH (2) = 2.000 BETAT (1) = -8.390

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 ORA + S3 + T9 OMS NOZZLE (RBOE11)

SECTION (1) OMS NOZZLE	DEPENDENT VARIABLE CP
MACH (2) = 2.000 BETAT (2) = -6.330	X/LNM .200 .400 PHI 135.000 .5970 180.000 .4770 .7950 225.000 .0440
MACH (2) = 2.000 BETAT (3) = -4.280	X/LNM .200 .400 PHI 135.000 .5790 180.000 .4330 .8130 225.000 .0660
MACH (2) = 2.000 BETAT (4) = -1.170	X/LNM .200 .400 PHI 135.000 .3640 180.000 .4450 .3480 225.000 -.0720
MACH (2) = 2.000 BETAT (5) = 3.940	X/LNM .200 .400 PHI 135.000 .0030 180.000 .3090 .0380 225.000 -.1390
MACH (2) = 2.000 BETAT (6) = 5.980	X/LNM .200 .400 PHI 135.000 -.0710 180.000 .2430 -.0640 225.000 -.1560
MACH (2) = 2.000 BETAT (7) = 8.050	X/LNM .200 .400 PHI 135.000 -.0740 180.000 .1390 -.0430 225.000 -.1730

AMES 97-707 IAS OEA + S3 + T9 OMS NOZZLE

(RBOE11) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.0000 ORBINC = .9000
 RUDDER = -15.0000 ELEVON = .0000
 RUOFLR = .0000

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.420 X/LNM .200 .400
 PHI
 135.000 .7980
 180.000 .4890 .8920
 225.000 -.0440

MACH (1) = 1.555 BETAT (2) = -6.360 X/LNM .200 .400
 PHI
 135.000 .7840
 180.000 .5350 .6810
 225.000 -.0660

MACH (1) = 1.555 BETAT (3) = -4.310 X/LNM .200 .400
 PHI
 135.000 .7240
 180.000 .5610 .3210
 225.000 -.1640

MACH (1) = 1.555 BETAT (4) = -1.80 X/LNM .200 .400
 PHI
 135.000 .1990
 180.000 .4100 -.0380
 225.000 -.2580

MACH (1) = 1.555 BETAT (5) = 3.940 X/LNM .200 .400
 PHI
 135.000 -.2040
 180.000 -.0250 -.2180
 225.000 -.2450

MACH (1) = 1.555 BETAT (6) = 6.000 X/LNM .200 .400
 PHI
 135.000 -.1880
 180.000 .0350 -.1980
 225.000 -.2490

MACH (1) = 1.555 BETAT (7) = 8.060 X/LNM .200 .400
 PHI
 135.000 -.2300
 180.000 -.1920 -.2220
 225.000 -.2370

(RBOE:1)

DATE 81 SEP 73
 TABULATED PRESSURE DATA - 1A9B
 AMES 97-707 1A9 OZA + S3 + T9 OMS NOZZLE

SECTION (1) OMS NOZZLE	DEPENDENT VARIABLE CP	
MACH (2) = 2.000 BETAT (1) = -6.390	X/LNM	.200 .400
	PHI	
	135.000	.4400
	180.000	.5890
	225.000	.7380
MACH (2) = 2.000 BETAT (2) = -6.340	X/LNM	.200 .400
	PHI	
	135.000	.6200
	180.000	.4790
	225.000	.7250
MACH (2) = 2.000 BETAT (3) = -4.290	X/LNM	.200 .400
	PHI	
	135.000	.5830
	180.000	.4280
	225.000	.5660
MACH (2) = 2.000 BETAT (4) = -1.180	X/LNM	.200 .400
	PHI	
	135.000	.3840
	180.000	.4490
	225.000	-.0630
MACH (2) = 2.000 BETAT (5) = 3.930	X/LNM	.200 .400
	PHI	
	135.000	.0140
	180.000	.3250
	225.000	-.1330
MACH (2) = 2.000 BETAT (6) = 5.980	X/LNM	.200 .400
	PHI	
	135.000	-.1650
	180.000	.2540
	225.000	-.1540
MACH (2) = 2.000 BETAT (7) = 6.040	X/LNM	.200 .400
	PHI	
	135.000	-.1690
	180.000	.1470
	225.000	-.1030

TABULATED PRESSURE DATA - 1A98

AMES 97-707 1A9 OSA + S3 + T9 OMS NOZZLE

DATE 21 SEP 73

(R03E12) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 90.FT. MMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0200 INCHES
 BREF = 39.8490 INCHES ZMRP = .0200 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.1000 CRBINC = .5000
 RUDDER = -15.0000 ELEVON = .0000
 RUDDFLR = .1000

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE

MACH (1) = 1.555 BETAT (1) = -8.350
 X/LNM .200 .400
 PHI
 135.000 .6740
 180.000 .4750
 225.000 -.0700

MACH (1) = 1.555 BETAT (2) = -6.310
 X/LNM .200 .400
 PHI
 135.000 .6920
 180.000 .5200
 225.000 -.1210

MACH (1) = 1.555 BETAT (3) = -4.260
 X/LNM .200 .400
 PHI
 135.000 .6340
 180.000 .5000
 225.000 -.1990

MACH (1) = 1.555 BETAT (4) = -.170
 X/LNM .200 .400
 PHI
 135.000 .1320
 180.000 .2750
 225.000 -.1030

MACH (1) = 1.555 BETAT (5) = 3.530
 X/LNM .200 .400
 PHI
 135.000 -.1530
 180.000 -.1660
 225.000 -.2450

MACH (1) = 1.555 BETAT (6) = 5.980
 X/LNM .200 .400
 PHI
 135.000 -.1720
 180.000 .0230
 225.000 -.2610

MACH (1) = 1.555 BETAT (7) = 8.020
 X/LNM .200 .400
 PHI
 135.000 -.2330
 180.000 -.1120
 225.000 -.2460

AMES 97-707 1A9 OEA + S3 + T9 OMS NOZZLE

(RBOE12)

SECTION (1) OMS NOZZLE

DEPENDENT VARIABLE CF

MACH (2) = 2.000	BETAT (1) = -0.320	X/LNM	.200	.400
		PHI		
		135.000	.3420	
		180.000	.4080	.5590
		225.000	.0520	
MACH (2) = 2.000	BETAT (2) = -6.280	X/LNM	.200	.400
		PHI		
		135.000	.4020	
		180.000	.4490	.6340
		225.000	.0230	
MACH (2) = 2.000	BETAT (3) = -4.240	X/LNM	.200	.400
		PHI		
		135.000	.4990	
		180.000	.4020	.7020
		225.000	.0410	
MACH (2) = 2.000	BETAT (4) = -.170	X/LNM	.200	.400
		PHI		
		135.000	.3450	
		180.000	.3910	.2560
		225.000	-.1070	
MACH (2) = 2.000	BETAT (5) = 3.920	X/LNM	.200	.400
		PHI		
		135.000	-.0270	
		180.000	.2410	-.0490
		225.000	-.1620	
MACH (2) = 2.000	BETAT (6) = 5.960	X/LNM	.200	.400
		PHI		
		135.000	-.1110	
		180.000	.1490	-.0720
		225.000	-.1810	
MACH (2) = 2.000	BETAT (7) = 8.010	X/LNM	.200	.400
		PHI		
		135.000	-.0960	
		180.000	.0560	-.1140
		225.000	-.1940	

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

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AMES 97-717 1A9 O2A + S3 + T9 OWS NOZZLE

(RSC013) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .03000 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDELR = .000

SECTION (1) OWS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.310

X/LNM	.200	.400
PHI		
135.000	.5070	
180.000	.4390	.5240
225.000	-.1060	

MACH (1) = 1.555 BETAT (2) = -6.280

X/LNM	.200	.400
PHI		
135.000	.5230	
180.000	.4590	.3140
225.000	-.1780	

MACH (1) = 1.555 BETAT (3) = -4.240

X/LNM	.200	.400
PHI		
135.000	.4660	
180.000	.3810	.0650
225.000	-.2310	

MACH (1) = 1.555 BETAT (4) = -.140

X/LNM	.200	.400
PHI		
135.000	.0890	
180.000	.1740	-.1400
225.000	-.2740	

MACH (1) = 1.555 BETAT (5) = 3.940

X/LNM	.200	.400
PHI		
135.000	-.0200	
180.000	.1600	-.1930
225.000	-.2710	

MACH (1) = 1.555 BETAT (6) = 5.990

X/LNM	.200	.400
PHI		
135.000	-.1390	
180.000	.0340	-.2050
225.000	-.2740	

MACH (1) = 1.555 BETAT (7) = 8.030

X/LNM	.200	.400
PHI		
135.000	-.2340	
180.000	-.0780	-.2460
225.000	-.2650	

(RBCE13)

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1A98
 AMES 97-7U7 1A9 ORA + S3 + T9 OMS NOZZLE

SECTION (1) OMS NOZZLE		DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (1) = -6.300	X/LNM	.200
		PHI	.400
		135.000	.2090
		180.000	.2070
		225.000	.4460
			.5760
MACH (2) = 2.000	BETAT (2) = -6.260	X/LNM	.200
		PHI	.400
		135.000	.2570
		180.000	.3260
		225.000	.5370
			.1270
MACH (2) = 2.000	BETAT (3) = -4.220	X/LNM	.200
		PHI	.400
		135.000	.3490
		180.000	.3470
		225.000	.5230
			-.0460
MACH (2) = 2.000	BETAT (4) = -.140	X/LNM	.200
		PHI	.400
		135.000	.2870
		180.000	.3110
		225.000	.1570
			-.1370
MACH (2) = 2.000	BETAT (5) = 3.980	X/LNM	.200
		PHI	.400
		135.000	-.0230
		180.000	.1890
		225.000	-.0790
			-.1730
MACH (2) = 2.000	BETAT (6) = 5.960	X/LNM	.200
		PHI	.400
		135.000	-.0960
		180.000	.0550
		225.000	-.1160
			-.1930
MACH (2) = 2.000	BETAT (7) = 8.020	X/LNM	.200
		PHI	.400
		135.000	-.1290
		180.000	-.0490
		225.000	-.1590
			-.1940

(RBOE14) (24 MAY 73)

AMES 97-707 1A9 O2A + S3 + T9 GMS NOZZLE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.0000 ORBINC = .5000
 RUDDER = -15.0000 ELEVON = .0000
 RUDFLR = .0000

SECTION (1) GMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.300
 X/LNM .200 .400
 PHI
 135.000 .3170
 180.000 .3870 .3580
 225.000 -.1190

MACH (1) = 1.555 BETAT (2) = -6.260
 X/LNM .200 .400
 PHI
 135.000 .2950
 180.000 .3680 .1890
 225.000 -.2070

MACH (1) = 1.555 BETAT (3) = -4.220
 X/LNM .200 .400
 PHI
 135.000 .2900
 180.000 .2780 -.0570
 225.000 -.2670

MACH (1) = 1.555 BETAT (4) = -.120
 X/LNM .200 .400
 PHI
 135.000 .0000
 180.000 .0490 -.1980
 225.000 -.2670

MACH (1) = 1.555 BETAT (5) = 3.950
 X/LNM .200 .400
 PHI
 135.000 -.1220
 180.000 .0470 -.2060
 225.000 -.2790

MACH (1) = 1.555 BETAT (6) = 6.160
 X/LNM .200 .400
 PHI
 135.000 -.1240
 180.000 .0160 -.2160
 225.000 -.2790

MACH (1) = 1.555 BETAT (7) = 8.140
 X/LNM .200 .400
 PHI
 135.000 -.2270
 180.000 -.0980 -.2570
 225.000 -.2760

DATE 21 SEP 79 TABULATED PRESSURE DATA - 1A98

(RBOE14)

AMES 97-707 1A9 ORA → S3 → T9 OMS NOZZLE

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CF

MACH (2) = 2.000 BETAT (1) = -0.295 X/LNM .200 .400 PHI

135.000 .0270
180.000 .0010 .0390
225.000 .0950

MACH (2) = 2.000 BETAT (2) = -0.250 X/LNM .200 .400 PHI

135.000 .1260
180.000 .1760 .4970
225.000 .0420

MACH (2) = 2.000 BETAT (3) = -0.200 X/LNM .200 .400 PHI

135.000 .2130
180.000 .2980 .3070
225.000 -.0400

MACH (2) = 2.000 BETAT (4) = -.150 X/LNM .200 .400 PHI

135.000 .1810
180.000 .1790 .0750
225.000 -.1550

MACH (2) = 2.000 BETAT (5) = 3.990 X/LNM .200 .400 PHI

135.000 .0050
180.000 .1950 -.0780
225.000 -.1880

MACH (2) = 2.000 BETAT (6) = 5.990 X/LNM .200 .400 PHI

135.000 -.0390
180.000 .0440 -.1270
225.000 -.1980

MACH (2) = 2.000 BETAT (7) = 8.040 X/LNM .200 .400 PHI

135.000 -.1830
180.000 -.0880 -.1890
225.000 -.2140

AMES 97-707 1A9 OEA + S3 + T9 OMS NOZZLE

(RBOE15) (22 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.6490 INCHES YMRP = .0400 INCHES
 BRFP = 39.6490 INCHES ZMRP = .0400 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .500
 RUDFLR = .000

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.320
 X/LNM .200 .400
 PHI
 135.000 .2140
 180.000 .3460
 225.000 -.1570

MACH (1) = 1.555 BETAT (2) = -6.280
 X/LNM .200 .400
 PHI
 135.000 .2780
 180.000 .3750
 225.000 -.2180

MACH (1) = 1.555 BETAT (3) = -4.230
 X/LNM .200 .400
 PHI
 135.000 .1750
 180.000 .2710
 225.000 -.0400

MACH (1) = 1.555 BETAT (4) = -.120
 X/LNM .200 .400
 PHI
 135.000 -.0430
 180.000 -.0160
 225.000 -.1950

MACH (1) = 1.555 BETAT (5) = 3.970
 X/LNM .200 .400
 PHI
 135.000 -.0050
 180.000 .0640
 225.000 -.2760

MACH (1) = 1.555 BETAT (6) = 6.030
 X/LNM .200 .400
 PHI
 135.000 -.1260
 180.000 -.0140
 225.000 -.2200

MACH (1) = 1.555 BETAT (7) = 6.180
 X/LNM .200 .400
 PHI
 135.000 -.2360
 180.000 1.1660
 225.000 -.2680

AMES 97-707 1A9 ORA + S3 + T9 OMS NOZZLE (RBOE15)

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -0.265

X/LNM	PHI	CP
.200	.400	.0430
.135,000	.0430	.0480
.180,000	.0480	.0390
.225,000	.0390	

MACH (2) = 2.000 BETAT (2) = -4.210

X/LNM	PHI	CP
.200	.400	.1410
.135,000	.1410	.2780
.180,000	.2780	.0360
.225,000	-.0360	

MACH (2) = 2.000 BETAT (3) = -.130

X/LNM	PHI	CP
.200	.400	.1380
.135,000	.1380	.1290
.180,000	.1290	.0570
.225,000	-.0570	

MACH (2) = 2.000 BETAT (4) = 3.970

X/LNM	PHI	CP
.200	.400	.0010
.135,000	.0010	.1540
.180,000	.1540	-.1860
.225,000	-.1860	

MACH (2) = 2.000 BETAT (5) = 6.020

X/LNM	PHI	CP
.200	.400	-.0290
.135,000	-.0290	.0530
.180,000	.0530	-.1980
.225,000	-.1980	

MACH (2) = 2.000 BETAT (6) = 8.070

X/LNM	PHI	CP
.200	.400	.0730
.135,000	.0730	-.1170
.180,000	-.1170	-.1920
.225,000	-.1920	

(RBOE16) (24 MAY 73)

AMES 97-757 IA9 O2A + S3 + T9 OMS NOZZLE

REFERENCE DATA

SREF = 2.4210 50. FT. XRRP = 28.5300 INCHES
 LREF = 39.6490 INCHES YRRP = .0000 INCHES
 BREF = 39.6490 INCHES ZRRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHAT = 0.0000 ORBINC = .500
 RUDDER = -15.0000 ELEVON = .0000
 RUDFLR = .0000

PARAMETRIC DATA

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE

MACH (1) = 1.555 BETAT (1) = -0.350 X/LNM .200 .400
 PHI
 135.000 .1440
 180.000 .2970 .0170
 225.000 -.2260

MACH (1) = 1.555 BETAT (2) = -0.290 X/LNM .200 .400
 PHI
 135.000 .1640
 180.000 .3060 -.0610
 225.000 -.2630

MACH (1) = 1.555 BETAT (3) = -0.240 X/LNM .200 .400
 PHI
 135.000 .1140
 180.000 .2620 -.0710
 225.000 -.2630

MACH (1) = 1.555 BETAT (4) = -.110 X/LNM .200 .400
 PHI
 135.000 -.0560
 180.000 -.0320 -.2140
 225.000 -.2630

MACH (1) = 1.555 BETAT (5) = 4.000 X/LNM .200 .400
 PHI
 135.000 -.0180
 180.000 .0320 -.1920
 225.000 -.2810

MACH (1) = 1.555 BETAT (6) = 6.060 X/LNM .200 .400
 PHI
 135.000 -.1270
 180.000 -.0430 -.2260
 225.000 -.2830

MACH (1) = 1.555 BETAT (7) = 8.120 X/LNM .200 .400
 PHI
 135.000 -.2000
 180.000 -.1560 -.2670
 225.000 -.2830

(RBOE16)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98
 ANES 97-707 1A9 OZA + S3 + T9 OMS NOZZLE

SECTION (1) OMS NOZZLE	DEPENDENT VARIABLE CP	
MACH (2) = 2.000 BETAT (1) = -8.340	X/LNM	.200 .400
	PHI	
	135.000	.0000
	180.000	.0000
	225.000	.0000
MACH (2) = 2.000 BETAT (2) = -6.270	X/LNM	.200 .400
	PHI	
	135.000	-.0320
	180.000	.0900
	225.000	-.0250
MACH (2) = 2.000 BETAT (3) = -4.220	X/LNM	.200 .400
	PHI	
	135.000	.0690
	180.000	.2190
	225.000	-.0610
MACH (2) = 2.000 BETAT (4) = -.120	X/LNM	.200 .400
	PHI	
	135.000	.1970
	180.000	.1410
	225.000	-.1560
MACH (2) = 2.000 BETAT (5) = 3.990	X/LNM	.200 .400
	PHI	
	135.000	.0220
	180.000	.1430
	225.000	-.1920
MACH (2) = 2.000 BETAT (6) = 6.050	X/LNM	.200 .400
	PHI	
	135.000	-.0160
	180.000	.0210
	225.000	-.1510
MACH (2) = 2.000 BETAT (7) = 8.110	X/LNM	.200 .400
	PHI	
	135.000	.1160
	180.000	-.0410
	225.000	-.1590

DATE 21 SEP 73

ISOLATED PRESSURE DATA - 1A98

AMES 97-757 1A9 O2A + S3 + T9 OMS NOZZLE

(RBOE17) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0400 INCHES
 BREF = 39.8490 INCHES ZMRP = .0400 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = -10.000 ELEWON = .000
 RUDFLR = .000

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE	MACH (1) = 1.555	BETAT (1) = -6.410	X/LNM	PHI
			.200	.400
			135.000	.6290
			180.000	.5180
			225.000	-.0910
MACH (1) = 1.555	BETAT (2) = -6.360	X/LNM	PHI	
		.200	.400	
		135.000	.8120	
		180.000	.5660	
		225.000	-.0800	
MACH (1) = 1.555	BETAT (3) = -4.500	X/LNM	PHI	
		.200	.400	
		135.000	.7240	
		180.000	.5670	
		225.000	-.1670	
MACH (1) = 1.555	BETAT (4) = -.180	X/LNM	PHI	
		.200	.400	
		135.000	.1790	
		180.000	.3780	
		225.000	-.2470	
MACH (1) = 1.555	BETAT (5) = 3.930	X/LNM	PHI	
		.200	.400	
		135.000	-.1920	
		180.000	-.0180	
		225.000	-.2330	
MACH (1) = 1.555	BETAT (6) = 5.990	X/LNM	PHI	
		.200	.400	
		135.000	-.1080	
		180.000	.0070	
		225.000	-.2290	
MACH (1) = 1.555	BETAT (7) = 8.050	X/LNM	PHI	
		.200	.400	
		135.000	-.2180	
		180.000	-.1080	
		225.000	-.2190	

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98 (RBOE17)

AMES 97-707 IAS CEA + S3 + T9 OMS NOZZLE

SECTION (3) OMS NOZZLE		DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (1) = -6.360	X/LNM	.200
		PHI	.400
		135.000	.4880
		180.000	.7300
		225.000	.0560
MACH (2) = 2.000	BETAT (2) = -6.330	X/LNM	.200
		PHI	.400
		135.000	.6330
		180.000	.4840
		225.000	.0440
MACH (2) = 2.000	BETAT (3) = -4.280	X/LNM	.200
		PHI	.400
		135.000	.6020
		180.000	.4470
		225.000	.0730
MACH (2) = 2.000	BETAT (4) = -1.170	X/LNM	.200
		PHI	.400
		135.000	.3960
		180.000	.4520
		225.000	-.0560
MACH (2) = 2.000	BETAT (5) = 3.930	X/LNM	.200
		PHI	.400
		135.000	.0220
		180.000	.3250
		225.000	-.1360
MACH (2) = 2.000	BETAT (6) = 5.980	X/LNM	.200
		PHI	.400
		135.000	-.0670
		180.000	.2480
		225.000	-.1540
MACH (2) = 2.000	BETAT (7) = 8.040	X/LNM	.200
		PHI	.400
		135.000	-.0760
		180.000	.1940
		225.000	-.1720

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A99

AXES 97-707 1A9 O2A + S3 + T9 OMS NOZZLE

(RBOE18) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. YMRP = 28.3300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.0000 ORBINC = .5000
 RUDDER = -10.0000 ELEVON = .0000
 RUDFLR = .0000

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE

MACH (1) = 1.555 BETAT (1) = -6.340
 X/LNM .200 .400
 PHI
 135.000 .6820
 180.000 .4980
 225.000 -.0770

MACH (1) = 1.555 BETAT (2) = -6.300
 X/LNM .200 .400
 PHI
 135.000 .6880
 180.000 .5320
 225.000 -.1300

MACH (1) = 1.555 BETAT (3) = -4.250
 X/LNM .200 .400
 PHI
 135.000 .6090
 180.000 .4940
 225.000 -.2070

MACH (1) = 1.555 BETAT (4) = -.160
 X/LNM .200 .400
 PHI
 135.000 .1000
 180.000 .2480
 225.000 -.1210

MACH (1) = 1.555 BETAT (5) = 3.930
 X/LNM .200 .400
 PHI
 135.000 -.1770
 180.000 -.0890
 225.000 -.2330

MACH (1) = 1.555 BETAT (6) = 5.980
 X/LNM .200 .400
 PHI
 135.000 -.1750
 180.000 .0150
 225.000 -.2560

MACH (1) = 1.555 BETAT (7) = 8.020
 X/LNM .200 .400
 PHI
 135.000 -.2290
 180.000 -.1100
 225.000 -.2270

DATE 21 SEP 73

TABLATED PRESSURE DATA - IA98

(RBOE18)

AMES 97-757 1A9 OEA + S3 + T9 OMS NOZZLE

SECTION (1) OMS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (1) = -8.320	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	.3780	135.000	.3780
		180.000	.4050	180.000	.4050
		225.000	.0680	225.000	.0680
MACH (2) = 2.000	BETAT (2) = -6.270	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	.4260	135.000	.4260
		180.000	.4630	180.000	.4630
		225.000	.0290	225.000	.0290
MACH (2) = 2.000	BETAT (3) = -4.230	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	.5180	135.000	.5180
		180.000	.4170	180.000	.4170
		225.000	.0440	225.000	.0440
MACH (2) = 2.000	BETAT (4) = -.160	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	.3710	135.000	.3710
		180.000	.3980	180.000	.3980
		225.000	.1000	225.000	.1000
MACH (2) = 2.000	BETAT (5) = 3.920	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	-.0310	135.000	-.0310
		180.000	.2400	180.000	.2400
		225.000	-.1630	225.000	-.1630
MACH (2) = 2.000	BETAT (6) = 5.960	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	-.1110	135.000	-.1110
		180.000	.1440	180.000	.1440
		225.000	-.1780	225.000	-.1780
MACH (2) = 2.000	BETAT (7) = 8.010	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	-.1080	135.000	-.1080
		180.000	.1440	180.000	.1440
		225.000	-.1890	225.000	-.1890

DATE 21 SEP 73 TUBULATED PRESSURE DATA - 1A98
 AVES 97-707 1A9 Q2A + S3 + T9 OMS NOZZLE

(RBOE19) (24 MAY 73)

PARAMETRIC DATA

ALPHAT = .0000 ORBINC = .5600
 RUDDER = -10.0000 ELEVON = .0600
 RUDFLR = .0000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

SECTION (1) OMS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.320
 X/LNM .200 .400
 PHI 135.000 .4930
 180.000 .4530
 225.000 -.1120

MACH (1) = 1.555 BETAT (2) = -6.270
 X/LNM .200 .400
 PHI 135.000 .4870
 180.000 .4680
 225.000 -.1850

MACH (1) = 1.555 BETAT (3) = -4.240
 X/LNM .200 .400
 PHI 135.000 .4570
 180.000 .3770
 225.000 -.2280

MACH (1) = 1.555 BETAT (4) = -.140
 X/LNM .200 .400
 PHI 135.000 .0900
 180.000 .1360
 225.000 -.2640

MACH (1) = 1.555 BETAT (5) = 3.990
 X/LNM .200 .400
 PHI 135.000 -.1090
 180.000 .0550
 225.000 -.2580

MACH (1) = 1.555 BETAT (6) = 5.990
 X/LNM .200 .400
 PHI 135.000 -.1560
 180.000 -.0000
 225.000 -.2600

MACH (1) = 1.555 BETAT (7) = 8.040
 X/LNM .200 .400
 PHI 135.000 -.2340
 180.000 -.1960
 225.000 -.2520

(RBOE19)

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 OEA + S3 + T9 OMS NOZZLE

SECTION (1) OMS NOZZLE

SECTION (1) OMS NOZZLE		DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (1) = -6.300	X/LNM	.200
		PHI	.400
		135.000	.2010
		180.000	.1960
		225.000	.0780
MACH (2) = 2.000	BETAT (2) = -6.260	X/LNM	.200
		PHI	.400
		135.000	.2510
		180.000	.3280
		225.000	.0330
MACH (2) = 2.000	BETAT (3) = -4.220	X/LNM	.200
		PHI	.400
		135.000	.3480
		180.000	.3510
		225.000	-.0070
MACH (2) = 2.000	BETAT (4) = -1.140	X/LNM	.200
		PHI	.400
		135.000	.2740
		180.000	.3080
		225.000	-.1480
MACH (2) = 2.000	BETAT (5) = 3.930	X/LNM	.200
		PHI	.400
		135.000	-.0290
		180.000	.1870
		225.000	-.1780
MACH (2) = 2.000	BETAT (6) = 5.980	X/LNM	.200
		PHI	.400
		135.000	-.1040
		180.000	.0510
		225.000	-.1210
MACH (2) = 2.000	BETAT (7) = 8.120	X/LNM	.200
		PHI	.400
		135.000	-.1320
		180.000	-.0970
		225.000	-.1620

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA98
 AXES 97-707 IA9 OZA + S3 + T9 OMS NOZZLE

(R50E23) (24 MAY 73)

REFERENCE DATA

SRFP = 2.4210 SQ.FT. XMRP = 29.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BRFP = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .03000 SCALE

ALPHAT = 4.0000 ORBLINC = .0000
 RUDDER = -10.0000 ELEVON = .0000
 RUDFLR = .0000

PARAMETRIC DATA

SECTION (1) OMS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -0.300
 X/LNM .200 .400
 PHI
 135.000 .2070
 180.000 .3900
 225.000 -.1200

MACH (1) = 1.555 BETAT (2) = -6.270
 X/LNM .200 .400
 PHI
 135.000 .3290
 180.000 .3680
 225.000 -.2090

MACH (1) = 1.555 BETAT (3) = -4.220
 X/LNM .200 .400
 PHI
 135.000 .2780
 180.000 .2720
 225.000 -.0630

MACH (1) = 1.555 BETAT (4) = -.130
 X/LNM .200 .400
 PHI
 135.000 -.0210
 180.000 .0260
 225.000 -.2560

MACH (1) = 1.555 BETAT (5) = 3.960
 X/LNM .200 .400
 PHI
 135.000 -.0320
 180.000 .0200
 225.000 -.2070

MACH (1) = 1.555 BETAT (6) = 6.000
 X/LNM .200 .400
 PHI
 135.000 -.1360
 180.000 -.0120
 225.000 -.2150

MACH (1) = 1.555 BETAT (7) = 8.180
 X/LNM .200 .400
 PHI
 135.000 -.2280
 180.000 -.1030
 225.000 -.2550

DATE 21 SEP 73
 TABULATED PRESSURE DATA - IA98
 AMES 97-707 IA9 OZA + S3 + T9 OMS NOZZLE
 (R50221)

SECTION (1) OMS NOZZLE	DEPENDENT VARIABLE CP	
MACH (2) = 2.000 BETAT (1) = -8.281	X/LNM	.200 .400
	PHI	
	135.000	.0030
	180.000	.0030
	225.000	.0430
MACH (2) = 2.000 BETAT (2) = -6.240	X/LNM	.200 .400
	PHI	
	135.000	.1140
	180.000	.1890
	225.000	.4860
MACH (2) = 2.000 BETAT (3) = -4.200	X/LNM	.200 .400
	PHI	
	135.000	.2110
	180.000	.3020
	225.000	.3660
MACH (2) = 2.000 BETAT (4) = -2.130	X/LNM	.200 .400
	PHI	
	135.000	.1700
	180.000	.1790
	225.000	.0790
MACH (2) = 2.000 BETAT (5) = 3.990	X/LNM	.200 .400
	PHI	
	135.000	.0320
	180.000	.1870
	225.000	-.1840
MACH (2) = 2.000 BETAT (6) = 5.990	X/LNM	.200 .400
	PHI	
	135.000	-.0370
	180.000	.0340
	225.000	-.1280
MACH (2) = 2.000 BETAT (7) = 8.040	X/LNM	.200 .400
	PHI	
	135.000	-.0790
	180.000	-.0840
	225.000	-.1860

AMES 97-7-7 1A9 OZA + S3 + T9 OMS NOZZLE

(RBCEZ1) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT.
 LREF = 39.8490 INCHES
 BREF = 39.8490 INCHES
 SCALE = .03141 SCALE

XMRP = 28.5300 INCHES
 YMRP = .0000 INCHES
 ZMRP = .0000 INCHES

ALPHAT = 6.0000
 RUDDER = -10.0000
 RUDFLR = .0000

ORBNIC = .0000
 ELEVON = .0000

PARAMETRIC DATA

SECTION (1) OMS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -0.330

X/LNM	.200	.400
PHI		
135.000	.1990	
180.000	.3460	.2000
225.000	-.1600	

MACH (1) = 1.555 BETAT (2) = -6.290

X/LNM	.200	.400
PHI		
135.000	.2440	
180.000	.3680	.0450
225.000	-.2300	

MACH (1) = 1.555 BETAT (3) = -4.230

X/LNM	.200	.400
PHI		
135.000	.1700	
180.000	.2790	-.0360
225.000	-.2580	

MACH (1) = 1.555 BETAT (4) = -.120

X/LNM	.200	.400
PHI		
135.000	-.0700	
180.000	-.1230	-.1980
225.000	-.2580	

MACH (1) = 1.555 BETAT (5) = 3.980

X/LNM	.200	.400
PHI		
135.000	-.0250	
180.000	.0470	-.1990
225.000	-.2740	

MACH (1) = 1.555 BETAT (6) = 6.140

X/LNM	.200	.400
PHI		
135.000	-.1260	
180.000	-.0200	-.2180
225.000	-.2730	

MACH (1) = 1.555 BETAT (7) = 0.110

X/LNM	.200	.400
PHI		
135.000	-.2350	
180.000	-.1730	-.2640
225.000	-.2690	

AMES 97-707 1A9 OSA + S3 + T9 OMS NOZZLE

(RBOE21)

SECTION (1) OMS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.310 X/LNM .200 .400
 PHI
 135.000 -.0970
 180.000 .0010 -.0830
 225.000 .0070

MACH (2) = 2.000 BETAT (2) = -6.260 X/LNM .200 .400
 PHI
 135.000 .0000
 180.000 .0670 .2180
 225.000 .0120

MACH (2) = 2.000 BETAT (3) = -4.210 X/LNM .200 .400
 PHI
 135.000 .1400
 180.000 .2790 .2710
 225.000 -.0600

MACH (2) = 2.000 BETAT (4) = -2.120 X/LNM .200 .400
 PHI
 135.000 .1330
 180.000 .1360 .0400
 225.000 -.1600

MACH (2) = 2.000 BETAT (5) = 3.970 X/LNM .200 .400
 PHI
 135.000 .0080
 180.000 .1670 -.0810
 225.000 -.1890

MACH (2) = 2.000 BETAT (6) = 6.020 X/LNM .200 .400
 PHI
 135.000 .0050
 180.000 .0350 -.1310
 225.000 -.1990

MACH (2) = 2.000 BETAT (7) = 8.070 X/LNM .200 .400
 PHI
 135.000 .1040
 180.000 -.1270 -.1960
 225.000 -.2060

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1A9B
 CASES 97-707 1A9 OEA + S3 + T9 OMS NOZZLE

(R0222) (24 MAY 73)

PARAMETRIC DATA

ALPHAT = 8.5500 ORBINC = .0400
 RUDDER = -10.0000 ELEVON = .0000
 RUDDLR = .0000

REFERENCE DATA

SREF = 2.4210 90.FT. ANRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 ZREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE	MACH (1) = 1.555	BETAT (1) = -6.360	X/LNM	PHI
			.200	.400
			135.000	.1300
			180.000	.2980
			225.000	-.2240
			X/LNM	.200
			PHI	.400
			135.000	.1900
			180.000	.2940
			225.000	-.0770
			X/LNM	.200
			PHI	.400
			135.000	.1980
			180.000	.2570
			225.000	-.0840
			X/LNM	.200
			PHI	.400
			135.000	-.0680
			180.000	-.0520
			225.000	-.2150
			X/LNM	.200
			PHI	.400
			135.000	-.0310
			180.000	.0250
			225.000	-.1980
			X/LNM	.200
			PHI	.400
			135.000	-.1350
			180.000	-.0600
			225.000	-.2300
			X/LNM	.200
			PHI	.400
			135.000	-.2080
			180.000	-.1630
			225.000	-.2640
			X/LNM	.200
			PHI	.400
			135.000	-.2080
			180.000	-.1630
			225.000	-.2640

(RBOE22)

DATE 21 SEP 73 TANGULATED PRESSURE DATA - 1A98
 AMES 97-707 1AS O2A + S3 + T9 OMS NOZZLE

SECTION (1) OMS NOZZLE	DEPENDENT VARIABLE CP		
MACH (2) = 2.000 BETAT (1) = -0.330	X/LNM	.200	.400
	PHI		
	135.000	-.1560	
	180.000	-.0220	-.1070
	225.000	-.1150	
MACH (2) = 2.000 BETAT (2) = -0.280	X/LNM	.200	.400
	PHI		
	135.000	-.0180	
	180.000	.0790	-.0240
	225.000	-.1030	
MACH (2) = 2.000 BETAT (3) = -4.220	X/LNM	.200	.400
	PHI		
	135.000	.0690	
	180.000	.2220	.1920
	225.000	-.0630	
MACH (2) = 2.000 BETAT (4) = -.310	X/LNM	.200	.400
	PHI		
	135.000	.1620	
	180.000	.1270	.0530
	225.000	-.1580	
MACH (2) = 2.000 BETAT (5) = 4.000	X/LNM	.200	.400
	PHI		
	135.000	.0260	
	180.000	.1450	-.0770
	225.000	-.1910	
MACH (2) = 2.000 BETAT (6) = 6.050	X/LNM	.200	.400
	PHI		
	135.000	-.0280	
	180.000	.0280	-.1490
	225.000	-.1990	
MACH (2) = 2.000 BETAT (7) = 8.110	X/LNM	.200	.400
	PHI		
	135.000	.1220	
	180.000	-.0410	-.1620
	225.000	-.2130	

(RBOE23) (24 MAY 73)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98
 AMES 97-717 1A9 ORA + S3 + T9 OMS NOZZLE

PARAMETRIC DATA

ALPHAT = -8.1400 ORBINC = .1000
 RUDDER = 15.0000 ELEVON = .1000
 RUOFLR = .1400

REFERENCE DATA

SEFP = 2.4210 SQ.FT. MRIP = 28.5310 INCHES
 LREF = 39.8490 INCHES YMRIP = .4440 INCHES
 BREF = 39.8490 INCHES ZMRIP = .1224 INCHES
 SCALE = .0374 SCALE

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE

MACH (1) = 1.555 BETAT (1) = -0.4000
 X/LNM .200 .400
 PHI
 135.1400 .0760
 180.1400 .4960 .8840
 225.1400 -.1440

MACH (1) = 1.555 BETAT (2) = -0.3600
 X/LNM .210 .400
 PHI
 135.1400 .7930
 180.1400 .5480 .6650
 225.1400 -.1160

MACH (1) = 1.555 BETAT (3) = -0.2800
 X/LNM .210 .400
 PHI
 135.1400 .7260
 180.1400 .5640 .3270
 225.1400 -.1620

MACH (1) = 1.555 BETAT (4) = -0.1700
 X/LNM .210 .400
 PHI
 135.1400 .2140
 180.1400 .4130 -.1020
 225.1400 -.2570

MACH (1) = 1.555 BETAT (5) = 0.9800
 X/LNM .210 .400
 PHI
 135.1400 -.1980
 180.1400 -.1078 -.2150
 225.1400 -.2398

MACH (1) = 1.555 BETAT (6) = 0.1600
 X/LNM .210 .400
 PHI
 135.1400 -.2250
 180.1400 -.1810 -.2170
 225.1400 -.2270

MACH (2) = 2.144 BETAT (1) = 0.3800
 X/LNM .210 .400
 PHI
 135.1400 .4360
 180.1400 .5820 .7250
 225.1400 .1560

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98 (RBOE23)
 AVES 37-707 1A9 OEA + S3 + T9 OMS NOZZLE

SECTION (1) OMS NOZZLE	DEPENDENT VARIABLE CP		
MACH (2) = 2.144 BETAT (2) = -6.331	X/LNM	.210	.480
	PHI		
	135.140	.6320	
	180.140	.4810	.7210
	225.140	.0360	
MACH (2) = 2.140 BETAT (3) = -4.280	X/LNM	.210	.480
	PHI		
	135.140	.5990	
	180.140	.4410	.8210
	225.140	.0650	
MACH (2) = 2.140 BETAT (4) = -1.170	X/LNM	.210	.480
	PHI		
	135.140	.3850	
	180.140	.4490	.3960
	225.140	-.0510	
MACH (2) = 2.140 BETAT (5) = 3.990	X/LNM	.210	.480
	PHI		
	135.140	.0280	
	180.140	.3220	.0550
	225.140	-.1340	
MACH (2) = 2.140 BETAT (6) = 5.980	X/LNM	.210	.480
	PHI		
	135.140	-.0680	
	180.140	.2540	-.0120
	225.140	-.1550	
MACH (2) = 2.100 BETAT (7) = 8.040	X/LNM	.210	.480
	PHI		
	135.140	-.0780	
	180.140	.1430	-.0410
	225.140	-.1780	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IASB
 AWES 97-707 IAS ORA + S3 + T9 OMS NOZZLE

(RBOE24) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.3300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .1304 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDPLR = .000

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE

MACH (1) = 1.555 BETAT (1) = -8.330
 X/LNM .200 .400
 PHI
 135.000 .3760
 180.000 .4810 .7130
 225.000 -.0730

MACH (1) = 1.555 BETAT (2) = -6.290

X/LNM .200 .400
 PHI
 135.000 .6830
 180.000 .5300 .4710
 225.000 -.1270

MACH (1) = 1.555 BETAT (3) = -4.240

X/LNM .200 .400
 PHI
 135.000 .6080
 180.000 .4910 .1640
 225.000 -.2040

MACH (1) = 1.555 BETAT (4) = -2.150

X/LNM .200 .400
 PHI
 135.000 .1440
 180.000 .2810 -.1040
 225.000 -.2720

MACH (1) = 1.555 BETAT (5) = 3.940

X/LNM .200 .400
 PHI
 135.000 -.1870
 180.000 -.0750 -.2320
 225.000 -.2450

MACH (1) = 1.555 BETAT (6) = 5.980

X/LNM .200 .400
 PHI
 135.000 -.1720
 180.000 .0240 -.2030
 225.000 -.2570

MACH (1) = 1.555 BETAT (7) = 8.030

X/LNM .200 .400
 PHI
 135.000 -.2290
 180.000 -.1150 -.2290
 225.000 -.2380

AMES 97-707 1A9 ORA + S3 + TS OMS NOZZLE

(RBC24)

SECTION (1) OMS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -0.310

X/LNM	PHI	CP
135.000	.260	.400
180.000	.3020	.530
225.000	.4130	.5530
225.000	.1980	

MACH (2) = 2.000 BETAT (2) = -0.270

X/LNM	PHI	CP
135.000	.210	.400
180.000	.4320	.6630
225.000	.4620	
225.000	.1030	

MACH (2) = 2.000 BETAT (3) = -4.230

X/LNM	PHI	CP
135.000	.210	.400
180.000	.5180	.6980
225.000	.4130	
225.000	.1480	

MACH (2) = 2.000 BETAT (4) = -.160

X/LNM	PHI	CP
135.000	.210	.400
180.000	.3740	.2830
225.000	.3990	
225.000	-.1130	

MACH (2) = 2.000 BETAT (5) = 3.920

X/LNM	PHI	CP
135.000	.210	.400
180.000	-.5180	
225.000	.2540	-.1610
225.000	-.1570	

MACH (2) = 2.000 BETAT (6) = 3.980

X/LNM	PHI	CP
135.000	.210	.400
180.000	-.10980	
225.000	.1510	-.0640
225.000	-.1810	

MACH (2) = 2.000 BETAT (7) = 0.010

X/LNM	PHI	CP
135.000	.210	.400
180.000	-.1070	
225.000	.10530	-.1070
225.000	-.1940	

REFERENCE DATA
 SREF = 2.4210 SQ.FT. XMRP = 20.3300 INCHES
 LREF = 39.8450 INCHES YMRP = .0000 INCHES
 BREF = 33.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0001 SCALE

PARAMETRIC DATA
 ALPHAT = .000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) OMS NOZZLE		DEPENDENT VARIABLE CP	
MACH (1) = 1.555	BETAT (1) = -0.320	X/LNM	.200 .400
		PHI	
		135.000	.5120
		180.000	.4400
		225.000	.5300
MACH (1) = 1.555	BETAT (2) = -0.270	X/LNM	.200 .400
		PHI	
		135.000	.5040
		180.000	.4670
		225.000	.2320
MACH (1) = 1.555	BETAT (3) = -4.240	X/LNM	.200 .400
		PHI	
		135.000	.4520
		180.000	.3760
		225.000	.0460
MACH (1) = 1.555	BETAT (4) = -.330	X/LNM	.200 .400
		PHI	
		135.000	.6800
		180.000	.1570
		225.000	-.1470
MACH (1) = 1.555	BETAT (5) = 3.950	X/LNM	.200 .400
		PHI	
		135.000	-.0160
		180.000	.0800
		225.000	-.1850
MACH (1) = 1.555	BETAT (6) = 5.990	X/LNM	.200 .400
		PHI	
		135.000	-.1320
		180.000	.0380
		225.000	-.2090
MACH (1) = 1.555	BETAT (7) = 0.040	X/LNM	.200 .400
		PHI	
		135.000	-.2340
		180.000	-.1060
		225.000	-.2420

DATE 21 SEP 73

TABLATED PRESSURE DATA - IA98

(RBOE25)

AMES 97-707 1A9 OEA + S3 + T9 OMS NOZZLE

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -0.290

X/LNM	PHI	CP
.200	.400	
.2200		
.2010	.4326	
.0730		

MACH (2) = 2.000 BETAT (2) = -6.250

X/LNM	PHI	CP
.200	.400	
.2750		
.3470	.6040	
.0330		

MACH (2) = 2.000 BETAT (3) = -4.210

X/LNM	PHI	CP
.200	.400	
.3660		
.3450	.5040	
-.0260		

MACH (2) = 2.000 BETAT (4) = -.140

X/LNM	PHI	CP
.200	.400	
.2980		
.3250	.1700	
-.1380		

MACH (2) = 2.000 BETAT (5) = 3.950

X/LNM	PHI	CP
.200	.400	
.0200		
.2260	-.0560	
-.1690		

MACH (2) = 2.000 BETAT (6) = 8.020

X/LNM	PHI	CP
.200	.400	
-.1340		
-.0400	-.1580	
-.1930		

(RBOE26) (24 MAY 73)

AMES 97-757 IA9 OZA + S3 + T9 OMS NOZZLE

TABULATED PRESSURE DATA - IA9B

DATE 21 SEP 73

REFERENCE DATA

SREF = 2.4210 SQ.FT. YMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.0000 ORBINC = .0000
 RUDDER = 15.0000 ELEVON = .0000
 RUDFLR = .0000

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE

MACH (1) = 1.555 BETAT (1) = -9.300
 X/LNM .200 .400
 PHI
 135.000 .3150
 180.000 .3930
 225.000 -.1260

MACH (1) = 1.555 BETAT (2) = -6.260
 X/LNM .200 .400
 PHI
 135.000 .3250
 180.000 .3730
 225.000 -.2090

MACH (1) = 1.555 BETAT (3) = -4.220
 X/LNM .200 .400
 PHI
 135.000 .2760
 180.000 .2620
 225.000 -.1700

MACH (1) = 1.555 BETAT (4) = -.120
 X/LNM .200 .400
 PHI
 135.000 -.0090
 180.000 .0340
 225.000 -.1970

MACH (1) = 1.555 BETAT (5) = 3.960
 X/LNM .200 .400
 PHI
 135.000 -.0100
 180.000 .0630
 225.000 -.1990

MACH (1) = 1.555 BETAT (6) = 6.050
 X/LNM .200 .400
 PHI
 135.000 -.1190
 180.000 .0370
 225.000 -.2130

MACH (1) = 1.555 BETAT (7) = 8.050
 X/LNM .200 .400
 PHI
 135.000 -.2280
 180.000 -.1190
 225.000 -.2550

AMES 97-707 1A9 O2A + S3 + T9 OMS NOZZLE

(R8J226)

SECTION (1) OMS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (1) = -0.280	X/LNM	PHI	CP
		.200	.400	.400
		135.000	.0660	
		180.000	.0140	.0970
		225.000	.0950	

MACH (2) = 2.000	BETAT (2) = -0.230	X/LNM	PHI	CP
		.200	.400	.400
		135.000	.1270	
		180.000	.2190	.5080
		225.000	.0370	

MACH (2) = 2.000	BETAT (3) = -0.200	X/LNM	PHI	CP
		.200	.400	.400
		135.000	.2070	
		180.000	.2970	.3790
		225.000	-.0510	

MACH (2) = 2.000	BETAT (4) = -.120	X/LNM	PHI	CP
		.200	.400	.400
		135.000	.1950	
		180.000	.1860	.1000
		225.000	-.1520	

MACH (2) = 2.000	BETAT (5) = 0.950	X/LNM	PHI	CP
		.200	.400	.400
		135.000	.0280	
		180.000	.2170	-.0960
		225.000	-.1860	

MACH (2) = 2.000	BETAT (6) = 0.990	X/LNM	PHI	CP
		.200	.400	.400
		135.000	-.0260	
		180.000	.0740	-.1190
		225.000	-.2040	

MACH (2) = 2.000	BETAT (7) = 0.030	X/LNM	PHI	CP
		.200	.400	.400
		135.000	-.1830	
		180.000	-.0670	-.1810
		225.000	-.2080	

AMES 97-707 IAS O2A + S3 + T9 OMS NOZZLE

(RBOE27) (24 MAY 73)

REFERENCE DATA
 SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 SREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .1350 SCALE

PARAMETRIC DATA
 ALPHAT = 6.1440 ORBINC = .0000
 RUDDER = 15.1440 ELEVON = .0000
 RUDDLR = .0000

SECTION (1) OMS NOZZLE	DEPENDENT VARIABLE CP	
MACH (1) = 1.555 BETAT (1) = -8.330	X/LNM	.200 .400
	PHI	135.1440 .2140
		180.1440 .3480
		225.1440 -.1530
MACH (1) = 1.555 BETAT (2) = -6.270	X/LNM	.200 .400
	PHI	135.1440 .2510
		180.1440 .3680
		225.1440 -.2320
MACH (1) = 1.555 BETAT (3) = -4.230	X/LNM	.200 .400
	PHI	135.1440 .1980
		180.1440 .2730
		225.1440 -.0520
MACH (1) = 1.555 BETAT (4) = -.110	X/LNM	.200 .400
	PHI	135.1440 -.0550
		180.1440 -.1490
		225.1440 -.2670
MACH (1) = 1.555 BETAT (5) = 3.990	X/LNM	.200 .400
	PHI	135.1440 -.0070
		180.1440 .0730
		225.1440 -.2030
MACH (1) = 1.555 BETAT (6) = 6.030	X/LNM	.200 .400
	PHI	135.1440 -.3180
		180.1440 .0070
		225.1440 -.2170
MACH (1) = 1.555 BETAT (7) = 8.090	X/LNM	.200 .400
	PHI	135.1440 -.2380
		180.1440 -.1790
		225.1440 -.2660

(RUC27)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

AMES 97-7J7 1A9 C8A + S3 + T9 OMS NOZZLE

SECTION (1) OMS NOZZLE	DEPENDENT VARIABLE CP		
MACH (2) = 2.000 BETAT (1) = -0.300	X/LNM	.200	.400
	PHI		
	135.000	-.1220	
	180.000	-.0110	-.0810
	225.000	.0250	
MACH (2) = 2.000 BETAT (2) = -6.250	X/LNM	.200	.400
	PHI		
	135.000	.0590	
	180.000	.0670	.3820
	225.000	.0330	
MACH (2) = 2.000 BETAT (3) = -4.200	X/LNM	.200	.400
	PHI		
	135.000	.1420	
	180.000	.2790	.3070
	225.000	-.0410	
MACH (2) = 2.000 BETAT (4) = -.120	X/LNM	.200	.400
	PHI		
	135.000	.1510	
	180.000	.1380	.0690
	225.000	-.1520	
MACH (2) = 2.000 BETAT (5) = 3.970	X/LNM	.200	.400
	PHI		
	135.000	.0260	
	180.000	.1820	-.0630
	225.000	-.1890	
MACH (2) = 2.000 BETAT (6) = 6.030	X/LNM	.200	.400
	PHI		
	135.000	.0030	
	180.000	.0670	-.1260
	225.000	-.2020	
MACH (2) = 2.000 BETAT (7) = 8.070	X/LNM	.200	.400
	PHI		
	135.000	.0770	
	180.000	-.1210	-.2000
	225.000	-.2110	

(RBOE28) (24 MAY 73)

DATE 21 SEP 77
 TABULATED PRESSURE DATA - 1A98
 AMES 97-757 1A9 O2A + S3 + T9 OMS NOZZLE

PARAMETRIC DATA

ALPHAT = 8.500 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDEFL = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -0.350

X/LNM	.200	.400
PHI		
135.000	.1390	
180.000	.2910	.0340
225.000	-.2240	

MACH (1) = 1.555 BETAT (2) = -0.300

X/LNM	.200	.400
PHI		
135.000	.1560	
180.000	.2970	-.0650
225.000	-.2640	

MACH (1) = 1.555 BETAT (3) = -0.250

X/LNM	.200	.400
PHI		
135.000	.0890	
180.000	.2450	-.1870
225.000	-.2690	

MACH (1) = 1.555 BETAT (4) = -.110

X/LNM	.200	.400
PHI		
135.000	-.0610	
180.000	-.0430	-.2160
225.000	-.2600	

MACH (1) = 1.555 BETAT (5) = 4.000

X/LNM	.200	.400
PHI		
135.000	-.0070	
180.000	.0450	-.1680
225.000	-.2880	

MACH (1) = 1.555 BETAT (6) = 6.000

X/LNM	.200	.400
PHI		
135.000	-.1180	
180.000	-.0520	-.2290
225.000	-.2860	

MACH (1) = 1.555 BETAT (7) = 8.100

X/LNM	.200	.400
PHI		
135.000	-.2130	
180.000	-.1700	-.2620
225.000	-.2790	

AMES 97-757 1A9 OZA + S3 + T9 OMS NOZZLE

(RBOE28)

SECTION (1) OMS NOZZLE	DEPENDENT VARIABLE CP
MACH (2) = 2.000 BETAT (1) = -6.320	X/LNM .200 .400 PHI 135.000 -.1680 180.000 .0000 225.000 -.1120
MACH (2) = 2.000 BETAT (2) = -6.260	X/LNM .200 .400 PHI 135.000 -.0060 180.000 .0000 225.000 -.0790
MACH (2) = 2.000 BETAT (3) = -4.210	X/LNM .200 .400 PHI 135.000 .0560 180.000 .2180 225.000 -.0590
MACH (2) = 2.000 BETAT (4) = -.110	X/LNM .200 .400 PHI 135.000 .2190 180.000 .1380 225.000 -.1440
MACH (2) = 2.000 BETAT (5) = 3.990	X/LNM .200 .400 PHI 135.000 .0520 180.000 .1630 225.000 -.1880
MACH (2) = 2.000 BETAT (6) = 6.090	X/LNM .200 .400 PHI 135.000 .0100 180.000 .0580 225.000 -.2040
MACH (2) = 2.000 BETAT (7) = 6.110	X/LNM .200 .400 PHI 135.000 .1410 180.000 -.0380 225.000 -.2160

(RBOFD1) (24 MAY 73)

TABULATED PRESSURE DATA - 1A9B
 AMES 97-707 1A9 ORA + S3 + T9 BODY FLAP

DATE 21 SEP 73

PARAMETRIC DATA

BETAT = .0000 ORBINC = .5000
 RUDDER = .0000 ELEVON = .0000
 RUDFLR = .0000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .5000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 1.555	ALPHAT (1) = -8.400	X/LB	1.039
		PHI	
		.0000	-0.1130
		40.0000	-0.1350
MACH (1) = 1.555	ALPHAT (2) = -6.330	X/LB	1.039
		PHI	
		.0000	-0.1000
		40.0000	-0.1350
MACH (1) = 1.555	ALPHAT (3) = -4.250	X/LB	1.039
		PHI	
		.0000	-0.0920
		40.0000	-0.1270
MACH (1) = 1.555	ALPHAT (4) = -2.190	X/LB	1.039
		PHI	
		.0000	-0.0770
		40.0000	-0.1160
MACH (1) = 1.555	ALPHAT (5) = -0.120	X/LB	1.039
		PHI	
		.0000	-0.0680
		40.0000	-0.0940
MACH (1) = 1.555	ALPHAT (6) = 1.950	X/LB	1.039
		PHI	
		.0000	-0.0550
		40.0000	-0.0750
MACH (1) = 1.555	ALPHAT (7) = 4.010	X/LB	1.039
		PHI	
		.0000	-0.0500
		40.0000	-0.0740
MACH (1) = 1.555	ALPHAT (8) = 6.060	X/LB	1.039
		PHI	
		.0000	-0.0430
		40.0000	-0.0710

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

(RBOF01)

AMES 97-737 1A9 Q2A + S3 + T9 BODY FLAP

SECTION (1) BODY FLAP

DEPENDENT VARIABLE CP

MACH (1) = 1.955 ALPHAT(9) = 0.130 X/LB 1.039
 PHI .000 -.0370
 40.000 -.0540

MACH (2) = 2.000 ALPHAT(1) = -0.360 X/LB 1.039
 PHI .000 -.1000
 40.000 -.1090

MACH (2) = 2.000 ALPHAT(2) = -6.310 X/LB 1.039
 PHI .000 -.0910
 40.000 -.1100

MACH (2) = 2.000 ALPHAT(3) = -4.250 X/LB 1.039
 PHI .000 -.0900
 40.000 -.1070

MACH (2) = 2.000 ALPHAT(4) = -2.210 X/LB 1.039
 PHI .000 -.0820
 40.000 -.1030

MACH (2) = 2.000 ALPHAT(5) = -1.160 X/LB 1.039
 PHI .000 -.0750
 40.000 -.0990

MACH (2) = 2.000 ALPHAT(6) = 1.890 X/LB 1.039
 PHI .000 -.0680
 40.000 -.0940

MACH (2) = 2.000 ALPHAT(7) = 3.930 X/LB 1.039
 PHI .000 -.0550
 40.000 -.0870

MACH (2) = 2.000 ALPHAT(8) = 5.960 X/LB 1.039
 PHI .000 -.0380
 40.000 -.0730

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B
AMES 97-707 1A9 02A + S3 + T9 BODY FLAP

(RBOF11)

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 2.000 ALPHAT(9) = 8.020 X/LB 1.039
PHI .040 -.0270
40.0240 -.0690

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 26.5300 INCHES
 LREF = 39.8480 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .03900 SCALE

PARAMETRIC DATA

ALPHAT = 8.0000 CRIBINC = .9000
 RUDDER = .0000 ELEVON = .0000
 RUDFLR = .0000

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.140 X/LB 1.039
 PHI .000 -.0180
 40.000 .0136

MACH (1) = 1.555 BETAT (2) = -5.100 X/LB 1.039
 PHI .000 -.0108
 40.000 .0190

MACH (1) = 1.555 BETAT (3) = -3.060 X/LB 1.039
 PHI .008 -.0250
 40.000 -.0200

MACH (1) = 1.555 BETAT (4) = 5.110 X/LB 1.039
 PHI .000 -.0090
 40.000 -.0690

MACH (1) = 1.555 BETAT (5) = 7.140 X/LB 1.039
 PHI .000 -.0340
 40.000 -.1170

MACH (1) = 1.555 BETAT (6) = 9.190 X/LB 1.039
 PHI .000 -.0280
 40.000 -.1300

MACH (2) = 2.000 BETAT (1) = -8.320 X/LB 1.039
 PHI .000 -.0390
 40.000 -.1680

MACH (2) = 2.000 BETAT (2) = -6.270 X/LB 1.039
 PHI .000 -.0350
 40.000 -.1570

(RBOF:2)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98
 A WES 97-707 1A9 O2A + S3 + T9 BODY FLAP

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (2) =	BETAT (3) =	X/LB	PHI
2.000	-4.210	1.039	
		.500	-.0190
		40.000	-.0810
2.000	3.990	1.039	
		.500	-.0540
		40.000	-.0760
2.000	6.060	1.039	
		.500	-.0610
		40.000	-.0950
2.000	8.120	1.039	
		.500	-.0710
		40.000	-.0880

AVES 97-707 1A9 OSA + S3 + T9 BODY FLAP

(RBOFD3) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.3300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .0000 ORBINC = .5000
 RUDDER = .0000 ELEVON = .0000
 RUDFLR = .0000

SECTION (1) BODY FLAP

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -7.120	X/LB	PHI
		1.039	
		.000	-.0320
		40.000	-.0030
MACH (1) = 1.555	BETAT (2) = -5.078	X/LB	PHI
		1.039	
		.000	-.0160
		40.000	.0300
MACH (1) = 1.555	BETAT (3) = -3.030	X/LB	PHI
		1.039	
		.000	-.0080
		40.000	-.0160
MACH (1) = 1.555	BETAT (4) = 5.080	X/LB	PHI
		1.039	
		.000	-.0250
		40.000	-.1030
MACH (1) = 1.555	BETAT (5) = 7.110	X/LB	PHI
		1.039	
		.000	-.0430
		40.000	-.1240
MACH (1) = 1.555	BETAT (6) = 9.140	X/LB	PHI
		1.039	
		.000	-.0420
		40.000	-.1420
MACH (2) = 2.000	BETAT (1) = -8.300	X/LB	PHI
		1.039	
		.000	-.0580
		40.000	-.1780
MACH (2) = 2.000	BETAT (2) = -6.250	X/LB	PHI
		1.039	
		.000	-.0910
		40.000	-.1300

DATE 21 SEP 73 TABULATED PRESSURE DATA - IA98

AMES 97-707 IA9 OGA + S3 + T9 BODY FLAP

(RBCF13)

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (2) =	2.0000	BETAT (3) =	-4.2000	X/LB	1.039
				PHI	
				.0000	-.0360
				40.0000	-.0920
MACH (2) =	2.0000	BETAT (4) =	3.9750	X/LB	1.039
				PHI	
				.0000	-.0620
				40.0000	-.0860
MACH (2) =	2.0000	BETAT (5) =	6.0300	X/LB	1.039
				PHI	
				.0000	-.0730
				40.0000	-.1020
MACH (2) =	2.0000	BETAT (6) =	8.0800	X/LB	1.039
				PHI	
				.0000	-.0910
				40.0000	-.0960

DATE 21 SEP 75
 TABULATED PRESSURE DATA - IA9B
 ANES 97-707 IAS OSA + S3 + T9 BODY FLAP
 (RBOFD4) (24 MAY 73)

PARAMETRIC DATA
 ALPHAT = 4.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XPRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

DEPENDENT VARIABLE CP

SECTION (1) BODY FLAP	MACH (1) = 1.555	BETAT (1) = -7.090	X/LB	PHI
			1.039	
			.000	-.0320
			40.000	-.0320
MACH (1) = 1.555	BETAT (2) = -5.070	X/LB	1.039	
		PHI	.000	-.0180
			40.000	.0140
MACH (1) = 1.555	BETAT (3) = -3.040	X/LB	1.039	
		PHI	.000	-.0490
			40.000	-.0510
MACH (1) = 1.555	BETAT (4) = 5.080	X/LB	1.039	
		PHI	.000	-.0160
			40.000	-.1020
MACH (1) = 1.555	BETAT (5) = 7.090	X/LB	1.039	
		PHI	.000	-.0290
			40.000	-.1140
MACH (1) = 1.555	BETAT (6) = 9.100	X/LB	1.039	
		PHI	.000	-.0460
			40.000	-.1630
MACH (2) = 2.000	BETAT (1) = -6.270	X/LB	1.039	
		PHI	.000	-.0570
			40.000	-.1850
MACH (2) = 2.000	BETAT (2) = -6.240	X/LB	1.039	
		PHI	.000	-.0640
			40.000	-.1240

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 O2A → S3 → T9 BODY FLAP

(RBOFD4)

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (3) = -4.200	X/LB	1.039
		PHI	
		.000	-.0450
		40.000	-.0770
MACH (2) = 2.000	BETAT (4) = 3.950	X/LB	1.039
		PHI	
		.000	-.0680
		40.000	-.0960
MACH (2) = 2.000	BETAT (5) = 5.950	X/LB	1.039
		PHI	
		.000	-.0840
		40.000	-.1150
MACH (2) = 2.000	BETAT (6) = 6.000	X/LB	1.039
		PHI	
		.000	-.1000
		40.000	-.1080

ANES 97-707 1A9 OEA + S3 + T9 BODY FLAP

(RBOF05) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.1220 ORBINC = .5000
 RUDDER = .0000 ELEVON = .0000
 RUDFLR = .0000

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -7.100	X/LB	1.039
		PHI	
		.000	-.0310
		40.000	-.0930
MACH (1) = 1.555	BETAT (2) = -5.070	X/LB	1.039
		PHI	
		.000	-.0310
		40.000	-.0190
MACH (1) = 1.555	BETAT (3) = -3.040	X/LB	1.039
		PHI	
		.000	-.0420
		40.000	-.0650
MACH (1) = 1.555	BETAT (4) = 5.090	X/LB	1.039
		PHI	
		.000	-.0240
		40.000	-.1080
MACH (1) = 1.555	BETAT (5) = 7.070	X/LB	1.039
		PHI	
		.000	-.0450
		40.000	-.1140
MACH (1) = 1.555	BETAT (6) = 9.090	X/LB	1.039
		PHI	
		.000	-.1060
		40.000	-.1820
MACH (2) = 2.000	BETAT (1) = -8.280	X/LB	1.039
		PHI	
		.000	-.0650
		40.000	-.1520
MACH (2) = 2.000	BETAT (2) = -6.250	X/LB	1.039
		PHI	
		.000	-.0640
		40.000	-.1110

AMES 97-707 IA9 OCA + S3 + T9 BODY FLAP

(RBCF15)

SECTION (1) BODY FLAP DEPENDENT VARIABLE CF

MACH (2) = 2.0000 BETAT (3) = -4.1400

X/LB	1.039
PHI	
.0000	-0.0550
40.0000	-0.0790

MACH (2) = 2.0000 BETAT (4) = 3.9400

X/LB	1.039
PHI	
.0000	-0.0780
40.0000	-0.1160

MACH (2) = 2.0000 BETAT (5) = 3.9800

X/LB	1.039
PHI	
.0000	-0.0890
40.0000	-0.1240

MACH (2) = 2.0000 BETAT (6) = 0.0200

X/LB	1.039
PHI	
.0000	-0.1020
40.0000	-0.1180

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 L'REF = 39.8490 INCHES YMRP = .0200 INCHES
 BREF = 39.8490 INCHES ZMRP = .0200 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .0000 ORBINC = .500
 RUDDER = .0000 ELEVON = .000
 RUDFLR = .0000

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -7.100	X/LB	PHI
		1.039	
		.000	-.0410
		40.000	-.1100
MACH (1) = 1.555	BETAT (2) = -5.080	X/LB	PHI
		1.039	
		.000	-.0470
		40.000	-.0560
MACH (1) = 1.555	BETAT (3) = -3.060	X/LB	PHI
		1.039	
		.000	-.0480
		40.000	-.0490
MACH (1) = 1.555	BETAT (4) = 5.050	X/LB	PHI
		1.039	
		.000	-.0330
		40.000	-.1070
MACH (1) = 1.555	BETAT (5) = 7.060	X/LB	PHI
		1.039	
		.000	-.0660
		40.000	-.1100
MACH (1) = 1.555	BETAT (6) = 9.090	X/LB	PHI
		1.039	
		.000	-.1120
		40.000	-.1750
MACH (2) = 2.000	BETAT (1) = -8.290	X/LB	PHI
		1.039	
		.000	-.0780
		40.000	-.1700
MACH (2) = 2.000	BETAT (2) = -6.250	X/LB	PHI
		1.039	
		.000	-.0790
		40.000	-.1180

(RBOF16)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A99
AVCS 97-717 1A9 Q2A + S3 + T9 BODY FLAP

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 2.1000 BETAT (3) = -.130
X/LB 1.039
PHI .1620 -.0890
40.0000 -.0990

MACH (2) = 2.1000 BETAT (4) = 3.950
X/LB 1.039
PHI .1620 -.0890
40.0000 -.1160

MACH (2) = 2.1000 BETAT (5) = 5.900
X/LB 1.039
PHI .1620 -.0890
40.0000 -.1270

AMES 97-707 1A9 02A + S3 + T9 BODY FLAP

(RBOF17) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -2.0000 ORBING = .5000
 RUDDER = .0000 ELEVON = .0000
 RUDFLR = .0000

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.110 X/LB 1.039
 PHI
 .0000 -.0680
 40.0000 -.1140

MACH (1) = 1.555 BETAT (2) = -5.090 X/LB 1.039
 PHI
 .0000 -.0630
 40.0000 -.0550

MACH (1) = 1.555 BETAT (3) = -3.070 X/LB 1.039
 PHI
 .0000 -.0480
 40.0000 -.0800

MACH (1) = 1.555 BETAT (4) = 5.040 X/LB 1.039
 PHI
 .0000 -.0730
 40.0000 -.1190

MACH (1) = 1.555 BETAT (5) = 7.060 X/LB 1.039
 PHI
 .0000 -.0800
 40.0000 -.1210

MACH (1) = 1.555 BETAT (6) = 9.080 X/LB 1.039
 PHI
 .0000 -.1150
 40.0000 -.1550

MACH (2) = 2.000 BETAT (1) = -8.310 X/LB 1.039
 PHI
 .0000 -.0960
 40.0000 -.2040

MACH (2) = 2.000 BETAT (2) = -6.260 X/LB 1.039
 PHI
 .0000 -.1130
 40.0000 -.1920

(RBOF07)

AMES 97-707 1A9 02A + S3 + T9 BODY FLAP

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 2.0000	BETAT (3) = -4.2300	X/LB	1.039
		PHI	
		.0000	-.0990
		40.0000	-.1190

MACH (2) = 2.0000	BETAT (4) = 3.9400	X/LB	1.039
		PHI	
		.0000	-.1000
		40.0000	-.1320

A

MACH (2) = 2.0000	BETAT (5) = 5.9700	X/LB	1.039
		PHI	
		.0000	-.1240
		40.0000	-.1380

MACH (2) = 2.0000	BETAT (6) = 8.0100	X/LB	1.039
		PHI	
		.0000	-.1280
		40.0000	-.1470

(RBOFT6) (24 MAY 75)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B
 AMES 97-707 IAB OCA + S3 + T9 BODY FLAP

PARAMETRIC DATA

ALPHAT = -4.1000 ORBINC = .5000
 RUDDER = .1000 ELEVON = .5000
 RUDFLR = .1000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .10000 INCHES
 BREF = 39.8490 INCHES ZMRP = .10000 INCHES
 SCALE = .0300 SCALE

DEPENDENT VARIABLE CP

SECTION (1) BODY FLAP

MACH	BETAT	X/LB	PHI
MACH (1) = 1.555	BETAT (1) = -8.130	X/LB 1.039	PHI .000
			40.000 -1.130
			40.000 -1.170
MACH (1) = 1.555	BETAT (2) = -6.150	X/LB 1.039	PHI .000
			40.000 -1.070
			40.000 -1.090
MACH (1) = 1.555	BETAT (3) = -3.070	X/LB 1.039	PHI .000
			40.000 1.060
			40.000 -1.080
MACH (1) = 1.555	BETAT (4) = 5.030	X/LB 1.039	PHI .000
			40.000 -1.070
			40.000 -1.100
MACH (1) = 1.555	BETAT (5) = 7.030	X/LB 1.039	PHI .000
			40.000 -1.110
			40.000 -1.110
MACH (1) = 1.555	BETAT (6) = 9.070	X/LB 1.039	PHI .000
			40.000 -1.180
			40.000 -1.180
MACH (2) = 2.000	BETAT (1) = -8.310	X/LB 1.039	PHI .000
			40.000 -1.120
			40.000 -1.200
MACH (2) = 2.000	BETAT (2) = -6.270	X/LB 1.039	PHI .000
			40.000 -1.180
			40.000 -1.210

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98
AMES 97-707 1A9 O2A + S3 + T9 BODY FLAP

(RBOFU8)

SECTION (1) BODY FLAP	DEPENDENT VARIABLE CP	
MACH (2) = 2.000 BETAT (3) = -4.230	X/LB	1.039
	PHI	
	.000	-.1220
	40.000	-.1240
MACH (2) = 2.000 BETAT (4) = 3.920	X/LB	1.039
	PHI	
	.000	-.1180
	40.000	-.1450
MACH (2) = 2.000 BETAT (5) = 5.960	X/LB	1.039
	PHI	
	.000	-.1450
	40.000	-.1530
MACH (2) = 2.000 BETAT (6) = 8.010	X/LB	1.039
	PHI	
	.000	-.1440
	40.000	-.1580

AMES 97-707 1A9 OEA + S3 + T9 BODY FLAP

(RBOFD9) (24 MAY 73)

REFERENCE DATA

SEEF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.1400 ORBINC = .5000
 RUDDER = .0400 ELEVON = .0000
 RUDFLR = .0000

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.160	X/LB	1.039	PHI
		.0000	-.1230	
		40.0000	-.1960	
MACH (1) = 1.555	BETAT (2) = -6.170	X/LB	1.039	PHI
		.0000	-.0930	
		40.0000	-.1070	
MACH (1) = 1.555	BETAT (3) = -4.180	X/LB	1.039	PHI
		.0000	-.0590	
		40.0000	-.0970	
MACH (1) = 1.555	BETAT (4) = 3.640	X/LB	1.039	PHI
		.0000	-.0790	
		40.0000	-.1370	
MACH (1) = 1.555	BETAT (5) = 5.690	X/LB	1.039	PHI
		.0000	-.0840	
		40.0000	-.1400	
MACH (1) = 1.555	BETAT (6) = 7.740	X/LB	1.039	PHI
		.0000	-.1390	
		40.0000	-.1230	
MACH (2) = 2.000	BETAT (1) = -8.340	X/LB	1.039	PHI
		.0000	-.1100	
		40.0000	-.2020	
MACH (2) = 2.000	BETAT (2) = -6.300	X/LB	1.039	PHI
		.0000	-.1420	
		40.0000	-.2140	

(RBOF09)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B
AMES 97-707 1A9 OEA + S3 + T9 BODY FLAP

SECTION (1) BODY FLAP
DEPENDENT VARIABLE CP

MACH (2) = 2.0000 BETAT (3) = -4.250
X/LB 1.039
PHI .0000 -.1260
40.0000 -.1190

MACH (2) = 2.0000 BETAT (4) = 3.930
X/LB 1.039
PHI .0000 -.1300
40.0000 -.1460

MACH (2) = 2.0000 BETAT (5) = 6.020
X/LB 1.039
PHI .0000 -.1400
40.0000 -.1650

(RECF10) (24 MAY 73

PARAMETRIC DATA

ALPHAT = -8.0000 CRPINC = .0000
RUGRES = .0000 ELEVON = .0000
RUGFLP = .0000

TABULATED PRESSURE DATA - IA98
AMES 97-707 IA9 O2A + S3 + T9 BODY FLAP

REFERENCE DATA

SREF = 2.4210 SQ.FT. XGRP = 25.3300 INCHES
YREF = 39.8450 INCHES YGRP = .0000 INCHES
ZREF = 39.8450 INCHES ZGRP = .0000 INCHES
SCALE = .0300 SCALE

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.200	X/LB	PHI
		1.039	
		.000	-1360
		40.000	-1190
MACH (1) = 1.555	BETAT (2) = -6.810	X/LB	PHI
		1.039	
		.000	-1100
		40.000	-1200
MACH (1) = 1.555	BETAT (3) = -4.220	X/LB	PHI
		1.039	
		.000	-1220
		40.000	-1350
MACH (1) = 1.555	BETAT (4) = 3.650	X/LB	PHI
		1.039	
		.000	-0950
		40.000	-1440
MACH (1) = 1.555	BETAT (5) = 5.710	X/LB	PHI
		1.039	
		.000	-0850
		40.000	-1390
MACH (1) = 1.555	BETAT (6) = 7.770	X/LB	PHI
		1.039	
		.000	-1570
		40.000	-1370
MACH (2) = 2.000	BETAT (1) = -8.390	X/LB	PHI
		1.039	
		.000	-1280
		40.000	-2040
MACH (2) = 2.000	BETAT (2) = -6.330	X/LB	PHI
		1.039	
		.000	-1410
		40.000	-2100

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B

AMES 97-717 1A9 OCA + S3 + T9 BODY FLAP

(RBOF15)

SECTION (1) BODY FLAP DEFENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.280 X/LB 1.039
PHI .000 -.1340
40.000 -.1220

MACH (2) = 2.000 BETAT (4) = -3.170 X/LB 1.039
PHI .000 -.1020
40.000 -.1100

MACH (2) = 2.000 BETAT (5) = 3.940 X/LB 1.039
PHI .000 -.1370
40.000 -.1500

MACH (2) = 2.000 BETAT (6) = 5.960 X/LB 1.039
PHI .000 -.1410
40.000 -.1570

MACH (2) = 2.000 BETAT (7) = 8.050 X/LB 1.039
PHI .000 -.1360
40.000 -.1590

(RDOF11) / 24 MAY 73)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98
 AMES 97-707 IAS OEA + S3 + T9 BODY FLAP

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LECP = 39.6450 INCHES YMRP = .0000 INCHES
 BREF = 39.6450 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHAT = -8.0000 GRBINC = .0000
 RUDDER = -15.0000 ELEVON = .0000
 RUDDLR = .0000

DEPENDENT VARIABLE CF

SECTION (1) BODY FLAP

MACH (1) = 1.555 BETAT (1) = -8.420
 X/LB 1.039
 PHI .0000 -0.1240
 40.0000 -0.1780

MACH (1) = 1.555 BETAT (2) = -6.360
 X/LB 1.039
 PHI .0000 -0.0780
 40.0000 -0.1240

MACH (1) = 1.555 BETAT (3) = -4.310
 X/LB 1.039
 PHI .0000 -0.1160
 40.0000 -0.1370

MACH (1) = 1.555 BETAT (4) = -2.180
 X/LB 1.039
 PHI .0000 -0.1090
 40.0000 -0.1350

MACH (1) = 1.555 BETAT (5) = 3.940
 X/LB 1.039
 PHI .0000 -0.0980
 40.0000 -0.1390

MACH (1) = 1.555 BETAT (6) = 6.160
 X/LB 1.039
 PHI .0000 -0.1040
 40.0000 -0.1490

MACH (1) = 1.555 BETAT (7) = 8.060
 X/LB 1.039
 PHI .0000 -0.1570
 40.0000 -0.1620

MACH (2) = 2.044 BETAT (1) = -8.390
 X/LB 1.039
 PHI .0000 -0.1370
 40.0000 -0.2100

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B

(RBOF11)

AMES 97-707 1A9 C2A + S3 + T9 BODY FLAP

DEPENDENT VARIABLE CP

SECTION (1) BODY FLAP

MACH (2) = 2.000	BETAT (2) = -6.340	X/LB	1.039
		PHI	
		.000	-.1500
		40.000	-.2050
MACH (2) = 2.000	BETAT (3) = -4.290	X/LB	1.039
		PHI	
		.000	-.1250
		40.000	-.1280
MACH (2) = 2.000	BETAT (4) = -.180	X/LB	1.039
		PHI	
		.000	-.1120
		40.000	-.1220
MACH (2) = 2.000	BETAT (5) = 3.930	X/LB	1.039
		PHI	
		.000	-.1330
		40.000	-.1370
MACH (2) = 2.000	BETAT (6) = 5.980	X/LB	1.039
		PHI	
		.000	-.1190
		40.000	-.1420
MACH (2) = 2.000	BETAT (7) = 8.040	X/LB	1.039
		PHI	
		.000	-.1100
		40.000	-.1680

(RBOF12) (24 MAY 73)

TABULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 O2A + S3 + T9 BODY FLAP

PARAMETRIC DATA

ALPHAT = -4.0000 ORGINC = .5100
 FUDDER = -15.0000 ELEVON = .0000
 RUDELFL = .0000

REFERENCE DATA

SREF = 2.4210 SQ.FT. YMRP = 29.5300 INCHES
 LREF = 35.8420 INCHES YMRF = .0000 INCHES
 BREF = 39.8490 INCHES ZMRF = .0000 INCHES
 SCALE = .0000 SCALE

DEPENDENT VARIABLE CP

SECTION (1) BODY FLAP

MACH (1) = 1.555	BETAT (1) = -8.350	X/LB	PHI
		1.039	
		.0000	-.0880
		40.0000	-.1670
MACH (1) = 1.555	BETAT (2) = -6.310	X/LB	PHI
		1.039	
		.0000	-.0540
		40.0000	-.0930
MACH (1) = 1.555	BETAT (3) = -4.260	X/LB	PHI
		1.039	
		.0000	-.0390
		40.0000	-.0710
MACH (1) = 1.555	BETAT (4) = -2.170	X/LB	PHI
		1.039	
		.0000	-.1190
		40.0000	-.1400
MACH (1) = 1.555	BETAT (5) = 3.930	X/LB	PHI
		1.039	
		.0000	-.0680
		40.0000	-.1060
MACH (1) = 1.555	BETAT (6) = 5.980	X/LB	PHI
		1.039	
		.0000	-.0910
		40.0000	-.0930
MACH (1) = 1.555	BETAT (7) = 8.020	X/LB	PHI
		1.039	
		.0000	-.1230
		40.0000	-.1210
MACH (2) = 2.100	BETAT (1) = -8.320	X/LB	PHI
		1.039	
		.0000	-.1150
		40.0000	-.2110

(RBOF12)

DATE 21 SEP 73 TABULATED PRESSURE DATA - IA98

AMES 97-707 IA9 O2A + S3 + TS BODY FLAP

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -t.280
X/LB 1.039
PHI .000 - .1310
40.000 - .2090

MACH (2) = 2.000 BETAT (3) = -4.240
X/LB 1.039
PHI .000 - .1120
40.000 - .1270

MACH (2) = 2.000 BETAT (4) = -.175
X/LB 1.039
PHI .000 - .0920
40.000 - .1110

MACH (2) = 2.000 BETAT (5) = 3.920
X/LB 1.039
PHI .000 - .1180
40.000 - .1450

MACH (2) = 2.000 BETAT (6) = 5.980
X/LB 1.039
PHI .000 - .1130
40.000 - .1470

MACH (2) = 2.000 BETAT (7) = 8.030
X/LB 1.039
PHI .000 - .1060
40.000 - .1680

REFERENCE DATA
 SREF = 2.4210 SQ.FT. XMRP = 28.5340 INCHES
 LEFF = 39.6490 INCHES YMRP = .0000 INCHES
 BFT = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

PARAMETRIC DATA
 ALPHAT = .0000 ORBINC = .5000
 RUDDER = -15.0000 ELEVON = .0000
 RUDFLR = .0000

SECTION (1) BODY FLAP	DEPENDENT VARIABLE CP
MACH (1) = 1.555 BETAT (1) = -8.310	X/LB 1.039 PHI .0000 -.0610 40.0000 -.1410
MACH (1) = 1.555 BETAT (2) = -6.280	X/LB 1.039 PHI .0000 -.0240 40.0000 -.0250
MACH (1) = 1.555 BETAT (3) = -4.240	X/LB 1.039 PHI .0000 -.0340 40.0000 -.0340
MACH (1) = 1.555 BETAT (4) = -.140	X/LB 1.039 PHI .0000 -.0730 40.0000 -.0700
MACH (1) = 1.555 BETAT (5) = 2.940	X/LB 1.039 PHI .0000 -.0380 40.0000 -.0960
MACH (1) = 1.555 BETAT (6) = 5.990	X/LB 1.039 PHI .0000 -.0460 40.0000 -.0650
MACH (1) = 1.555 BETAT (7) = 8.030	X/LB 1.039 PHI .0000 -.0640 40.0000 -.0880
MACH (2) = 2.050 BETAT (1) = -8.300	X/LB 1.039 PHI .0000 -.0710 40.0000 -.1750

AMES 97-707 1A9 O2A + S3 + T9 BODY FLAP

(R00F13)

9

SECTION (1) BODY FLAP DEFICENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.260 X/LB 1.039
 PHI .000 -.0890
 40.000 -.1530

MACH (2) = 2.000 BETAT (3) = -4.220 X/LB 1.039
 PHI .000 -.0760
 40.000 -.1020

MACH (2) = 2.000 BETAT (4) = -1.140 X/LB 1.039
 PHI .000 -.0750
 40.000 -.1040

MACH (2) = 2.000 BETAT (5) = 3.930 X/LB 1.039
 PHI .000 -.0880
 40.000 -.1210

MACH (2) = 2.000 BETAT (6) = 5.980 X/LB 1.039
 PHI .000 -.0870
 40.000 -.1260

MACH (2) = 2.000 BETAT (7) = 8.020 X/LB 1.039
 PHI .000 -.0630
 40.000 -.1230

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
RUDDER = -15.000 ELEVON = .000
RUDFLR = .000

DEPENDENT VARIABLE CP

SECTION (1) BODY FLAP

MACH (1) = 1.555	BETAT (1) = -8.300	X/LB	PHI	1.039
		.000		-.0190
		40.000		-.0530
MACH (1) = 1.555	BETAT (2) = -6.260	X/LB	PHI	1.039
		.000		-.0100
		40.000		-.0120
MACH (1) = 1.555	BETAT (3) = -4.220	X/LB	PHI	1.039
		.000		-.0440
		40.000		-.0160
MACH (1) = 1.555	BETAT (4) = -.120	X/LB	PHI	1.039
		.000		-.0470
		40.000		-.0710
MACH (1) = 1.555	BETAT (5) = 3.990	X/LB	PHI	1.039
		.000		-.0330
		40.000		-.0920
MACH (1) = 1.555	BETAT (6) = 6.000	X/LB	PHI	1.039
		.000		-.0300
		40.000		-.0940
MACH (1) = 1.555	BETAT (7) = 8.040	X/LB	PHI	1.039
		.000		-.0340
		40.000		-.1900
MACH (2) = 2.000	BETAT (1) = -8.290	X/LB	PHI	1.039
		.000		-.0330
		40.000		-.1670

AMES 97-707 IA9 O2A + S3 + T9 BODY FLAP

(RBOF14)

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (2) = -0.250	X/LB	1.039
		PHI	
		.000	-.0470
		40.000	-.1190
MACH (2) = 2.000	BETAT (3) = -4.250	X/LB	1.039
		PHI	
		.500	-.0560
		40.000	-.0800
MACH (2) = 2.000	BETAT (4) = -.130	X/LB	1.039
		PHI	
		.000	-.0580
		40.000	-.0850
MACH (2) = 2.000	BETAT (5) = 3.990	X/LB	1.039
		PHI	
		.000	-.0710
		40.000	-.1970
MACH (2) = 2.000	BETAT (6) = 5.990	X/LB	1.039
		PHI	
		.000	-.0700
		40.000	-.1130
MACH (2) = 2.000	BETAT (7) = 6.040	X/LB	1.039
		PHI	
		.000	-.0770
		40.000	-.1480

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA98
 ANES 97-707 IA9 C2A + S3 + T9 BODY FLAP

(RBOF15) (24 MAY 73)

PARAMETRIC DATA

ALPHAT = 6.000 ORBITNC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 99.8490 INCHES YMRP = .0000 INCHES
 BREF = 99.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .03100 SCALE

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -6.320	X/LB	PHI
		1.039	.000
			-0.0130
		40.000	-0.0630
MACH (1) = 1.555	BETAT (2) = -6.280	X/LB	PHI
		1.039	.000
			-0.0240
		40.000	-0.0320
MACH (1) = 1.555	BETAT (3) = -4.230	X/LB	PHI
		1.039	.000
			-0.0360
		40.000	-0.0070
MACH (1) = 1.555	BETAT (4) = -3.120	X/LB	PHI
		1.039	.000
			-0.0310
		40.000	-0.0580
MACH (1) = 1.555	BETAT (5) = 3.970	X/LB	PHI
		1.039	.000
			-0.0420
		40.000	-0.0760
MACH (1) = 1.555	BETAT (6) = 6.030	X/LB	PHI
		1.039	.000
			-0.0410
		40.000	-0.1060
MACH (1) = 1.555	BETAT (7) = 8.080	X/LB	PHI
		1.039	.000
			-0.0320
		40.000	-0.1450
MACH (2) = 2.000	BETAT (1) = -6.260	X/LB	PHI
		1.039	.000
			-0.0370
		40.000	-0.1100

AMES 97-707 IAS O2A + S3 + T9 ORBITER BASE

(RBOC15) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.0000 ORBINC = .500
 RUDDER = -15.0000 ELEVON = .000
 RUDEFLR = .0000

SECTION (1) ORBITER BASE

DEPENDENT VARIABLE CP

MACH (1)	BETAT (1)	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
MACH (1) = 1.555	BETAT (1) = -6.320	A	.000	-.2630	-.2670	-.2640	-.2640	.0000	-.2640	-.2680	-.2940
MACH (1) = 1.555	BETAT (2) = -6.280	A	.000	-.2630	-.2660	-.2610	-.2620	.0000	-.2640	-.2720	-.2920
MACH (1) = 1.555	BETAT (3) = -4.230	A	.000	-.2570	-.2610	-.2530	-.2530	.0000	-.2540	-.2570	-.2790
MACH (1) = 1.555	BETAT (4) = -.120	A	.000	-.2430	-.2450	-.2420	-.2430	.0000	-.2440	-.2290	-.2540
MACH (1) = 1.555	BETAT (5) = 3.970	A	.000	-.2460	-.2500	-.2490	-.2450	.0000	-.2480	-.2310	-.2590
MACH (1) = 1.555	BETAT (6) = 6.030	A	.000	-.2560	-.2580	-.2590	-.2530	.0000	-.2570	-.2290	-.2640
MACH (1) = 1.555	BETAT (7) = 6.080	A	.000	-.2650	-.2680	-.2690	-.2650	.0000	-.2660	-.2330	-.2680
MACH (2) = 2.000	BETAT (1) = -6.260	A	.000	-.1860	-.1890	-.1900	-.1910	.0000	-.1860	-.1890	-.2090
MACH (2) = 2.000	BETAT (2) = -4.210	A	.000	-.1890	-.1930	-.1920	-.1920	.0000	-.1890	-.1940	-.2130
MACH (2) = 2.000	BETAT (3) = -.130	A	.000	-.1820	-.1850	-.1880	-.1870	.0000	-.1860	-.1890	-.2130

(RBOC15)

AMES 97-707 IAS OBA + 83 + T9 ORBITER BASE

SECTION (1) ORBITER BASE

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = 3.970	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1670	-.1900	-.1920	-.1900	.0000	-.1910	-.1860	-.2000
MACH (2) = 2.000	BETAT (5) = 6.020	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1680	-.1850	-.1860	-.1860	.0000	-.1830	-.1730	-.2000
MACH (2) = 2.000	BETAT (6) = 8.070	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1680	-.1940	-.1930	-.1920	.0000	-.1910	-.1800	-.2000

REF = 2.4210 SQ.FT. YMRP = 20.5300 INCHES ALPHAT = 8.0000 ORBINC = .5000
 LREF = 39.8490 INCHES YMRP = .0000 INCHES RUDDER = -15.0000 ELEVON = .0000
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES RUOFLR = .0000
 SCALE = .0300 SCALE

SECTION (1) ORBITER BASE

MACH	BETAT (1)	BETAT (2)	BETAT (3)	BETAT (4)	BETAT (5)	BETAT (6)	BETAT (7)	TAP NO	DEPENDENT VARIABLE CP
MACH (1) = 1.555	BETAT (1) = -8.350	BETAT (2) = -6.290	BETAT (3) = -4.240	BETAT (4) = -1.110	BETAT (5) = 4.000	BETAT (6) = 6.000	BETAT (7) = 6.120	1.000	1.000
								2.000	2.000
MACH (2) = 2.000	BETAT (1) = -6.270	BETAT (2) = -4.220	BETAT (3) = -2.190	BETAT (4) = -0.990	BETAT (5) = 2.000	BETAT (6) = 4.000	BETAT (7) = 4.140	1.000	1.000
								2.000	2.000
MACH (3) = 2.500	BETAT (1) = -4.200	BETAT (2) = -2.160	BETAT (3) = -0.980	BETAT (4) = 0.000	BETAT (5) = 0.000	BETAT (6) = 0.000	BETAT (7) = 0.000	1.000	1.000
								2.000	2.000
MACH (4) = 3.000	BETAT (1) = -2.140	BETAT (2) = -0.960	BETAT (3) = 0.000	BETAT (4) = 0.000	BETAT (5) = 0.000	BETAT (6) = 0.000	BETAT (7) = 0.000	1.000	1.000
								2.000	2.000
MACH (5) = 3.500	BETAT (1) = -0.940	BETAT (2) = 0.000	BETAT (3) = 0.000	BETAT (4) = 0.000	BETAT (5) = 0.000	BETAT (6) = 0.000	BETAT (7) = 0.000	1.000	1.000
								2.000	2.000
MACH (6) = 4.000	BETAT (1) = 0.000	BETAT (2) = 0.000	BETAT (3) = 0.000	BETAT (4) = 0.000	BETAT (5) = 0.000	BETAT (6) = 0.000	BETAT (7) = 0.000	1.000	1.000
								2.000	2.000
MACH (7) = 4.500	BETAT (1) = 0.000	BETAT (2) = 0.000	BETAT (3) = 0.000	BETAT (4) = 0.000	BETAT (5) = 0.000	BETAT (6) = 0.000	BETAT (7) = 0.000	1.000	1.000
								2.000	2.000
MACH (8) = 5.000	BETAT (1) = 0.000	BETAT (2) = 0.000	BETAT (3) = 0.000	BETAT (4) = 0.000	BETAT (5) = 0.000	BETAT (6) = 0.000	BETAT (7) = 0.000	1.000	1.000
								2.000	2.000
MACH (9) = 5.500	BETAT (1) = 0.000	BETAT (2) = 0.000	BETAT (3) = 0.000	BETAT (4) = 0.000	BETAT (5) = 0.000	BETAT (6) = 0.000	BETAT (7) = 0.000	1.000	1.000
								2.000	2.000
MACH (10) = 6.000	BETAT (1) = 0.000	BETAT (2) = 0.000	BETAT (3) = 0.000	BETAT (4) = 0.000	BETAT (5) = 0.000	BETAT (6) = 0.000	BETAT (7) = 0.000	1.000	1.000
								2.000	2.000
MACH (11) = 6.500	BETAT (1) = 0.000	BETAT (2) = 0.000	BETAT (3) = 0.000	BETAT (4) = 0.000	BETAT (5) = 0.000	BETAT (6) = 0.000	BETAT (7) = 0.000	1.000	1.000
								2.000	2.000
MACH (12) = 7.000	BETAT (1) = 0.000	BETAT (2) = 0.000	BETAT (3) = 0.000	BETAT (4) = 0.000	BETAT (5) = 0.000	BETAT (6) = 0.000	BETAT (7) = 0.000	1.000	1.000
								2.000	2.000
MACH (13) = 7.500	BETAT (1) = 0.000	BETAT (2) = 0.000	BETAT (3) = 0.000	BETAT (4) = 0.000	BETAT (5) = 0.000	BETAT (6) = 0.000	BETAT (7) = 0.000	1.000	1.000
								2.000	2.000
MACH (14) = 8.000	BETAT (1) = 0.000	BETAT (2) = 0.000	BETAT (3) = 0.000	BETAT (4) = 0.000	BETAT (5) = 0.000	BETAT (6) = 0.000	BETAT (7) = 0.000	1.000	1.000
								2.000	2.000
MACH (15) = 8.500	BETAT (1) = 0.000	BETAT (2) = 0.000	BETAT (3) = 0.000	BETAT (4) = 0.000	BETAT (5) = 0.000	BETAT (6) = 0.000	BETAT (7) = 0.000	1.000	1.000
								2.000	2.000
MACH (16) = 9.000	BETAT (1) = 0.000	BETAT (2) = 0.000	BETAT (3) = 0.000	BETAT (4) = 0.000	BETAT (5) = 0.000	BETAT (6) = 0.000	BETAT (7) = 0.000	1.000	1.000
								2.000	2.000

PARAMETRIC DATA

AWES 97-707 1A9 OEA + S3 + T9 ORBITER BASE (RBOC16)

SECTION: (1) ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = -0.120	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.0000	-.1870	-.1910	-.1920	-.1920	.0000	1.1890	-.1920	-.2030
MACH (2) = 2.000	BETAT (5) = 3.990	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.0000	-.1910	-.1970	-.1980	-.1960	.0000	-.1960	-.1990	-.2180
MACH (2) = 2.000	BETAT (6) = 6.050	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.0000	-.1830	-.1860	-.1870	-.1850	.0000	-.1840	-.1800	-.1920
MACH (2) = 2.000	BETAT (7) = 8.110	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.0000	-.1880	-.1930	-.1930	-.1920	.0000	-.1950	-.1970	-.2190

AMES 97-707 1A9 02A + S3 + T9 ORBITER BASE

(RBOC17) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XFRP = 20.5300 INCHES
 LREF = 39.8490 INCHES YFRP = .1000 INCHES
 BREF = 39.8490 INCHES ZFRP = .0500 INCHES
 SCALE = .0300 SCALE

ALPHAT = -8.0000 ORBINC = .5000
 RUDDER = -10.0000 ELEVON = .0000
 RUDFLR = .0000

PARAMETRIC DATA

DEPENDENT VARIABLE CP

SECTION (1) ORBITER BASE	MACH (1) = 1.555	BETAT (1) = -8.410	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
MACH (1) = 1.555	BETAT (2) = -6.360	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	9.000
MACH (1) = 1.555	BETAT (3) = -4.300	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	9.000
MACH (1) = 1.555	BETAT (4) = -1.180	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	9.000
MACH (1) = 1.555	BETAT (5) = 3.930	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	9.000
MACH (1) = 1.555	BETAT (6) = 5.990	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	9.000
MACH (1) = 1.555	BETAT (7) = 6.050	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	9.000
MACH (2) = 2.140	BETAT (1) = -6.380	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	9.000
MACH (2) = 2.140	BETAT (2) = -6.330	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	9.000
MACH (2) = 2.140	BETAT (3) = -4.280	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	9.000

(RBOC17)

AMES 97-707 1A9 02A + S3 + T9 ORBITER BASE

DEPENDENT VARIABLE CP

SECTION (1) ORBITER BASE

MACH (2) = 2.000	BETAT (4) = -0.170	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
MACH (2) = 2.000 BETAT (5) = 3.980											
MACH (2) = 2.000 BETAT (6) = 5.980											
MACH (2) = 2.000 BETAT (7) = 8.048											

AMES 97-707 1A9 O2A + S3 + T9 ORBITER BASE (RB0C18) (24 MAY 73)

REFERENC DATA

SREF = 2.4210 SQ. FT. XMRP = 28.5300 INCHES
LRFP = 39.8490 INCHES YMRP = .0000 INCHES
BRFP = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0000 SCALE

ALPHAT = -4.0000 ORBINC = .5000
RUDDER = -10.0000 ELEVON = .0000
RUDDFLR = .0000

PARAMETRIC DATA

DEPENDENT VARIABLE CP

SECTION (1)	ORBITER BASE	MACH (1)	BETAT (1)	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000										
MACH (1) = 1.555	BETAT (1) = -6.340	A	.000	-2290	-2370	-2270	-2190	.0000	-2180	-2310	-2990	-2420											
					MACH (1) = 1.555	BETAT (2) = -6.340	A	.000	-2270	-2330	-2280	-2210	-2300	-2940	-2430								
																MACH (1) = 1.555	BETAT (3) = -4.250	A	.000	-2290	-2390	-2280	-2170
MACH (1) = 1.555	BETAT (4) = -1.600	A	.000	-2230	-2330	-2280	-2280	-2320	-2180	-2460	-2510												
												MACH (1) = 1.555	BETAT (5) = 3.930	A	.000	-2230	-2330	-2280	-2130	-2250	-2120	-2200	-2370
MACH (1) = 1.555	BETAT (7) = 6.120	A	.000	-2240	-2310	-2250	-2160	-2290	-1940	-2350	-2350												
												MACH (2) = 2.000	BETAT (1) = -6.320	A	.000	-1610	-1640	-1620	-1620	-1540	-1790	-2230	-1830
MACH (2) = 2.000	BETAT (3) = -4.230	A	.000	-1710	-1750	-1740	-1730	-1640	-1870	-2230	-1950												

SECTION (1) ORBITER BASE		DEPENDENT VARIABLE CP										
MACH (2) = 2.000	BETAT (4) = -.160	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1700	-.1760	-.1740	-.1730	.0000	-.1690	-.1610	-.2020	-.1850
MACH (2) = 2.000	BETAT (5) = 3.920	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1750	-.1790	-.1800	-.1780	.0000	-.1780	-.1700	-.1950	-.1900
MACH (2) = 2.000	BETAT (6) = 5.960	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1710	-.1750	-.1760	-.1760	.0000	-.1710	-.1620	-.1930	-.1850
MACH (2) = 2.000	BETAT (7) = 8.010	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1660	-.1700	-.1710	-.1690	.0000	-.1680	-.1440	-.1830	-.1800

AMES 97-707 1A9 OEA + S2 + T9 ORBITER BASE

(RBOC19) (24 MAY 73)

REFEREN DATA

SREF = 2.4210 SQ.FT. YMRP = 28.3300 INCHES
 LREF = 39.8490 INCHES YMRP = 10.0000 INCHES
 BREF = 39.8490 INCHES ZMRP = 10.0000 INCHES
 SCALE = 10.0000 SCALE

PARAMETRIC DATA

ALPHAT = .0000 ORBINC = .0000
 RUDDET = -10.0000 ELEVON = .1000
 RUDPLR = .0000

DEPENDENT VARIABLE CP

SECTION (1) ORBITER BASE	MACH (1) = 1.555	BETAT (1) = -8.320	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
			A	.000	-.2430	-.2550	-.2430	-.2390	.0000	-.2350	-.3040	-.2640
	MACH (1) = 1.555	BETAT (2) = -6.270	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
			A	.000	-.2350	-.2410	-.2360	-.2310	.0000	-.2300	-.2410	-.2830
	MACH (1) = 1.555	BETAT (3) = -4.240	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
			A	.000	-.2410	-.2470	-.2380	-.2310	.0000	-.2370	-.2410	-.2910
	MACH (1) = 1.555	BETAT (4) = -1.140	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
			A	.000	-.2350	-.2400	-.2380	-.2320	.0000	-.2330	-.2210	-.2460
	MACH (1) = 1.555	BETAT (5) = 3.950	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
			A	.000	-.2310	-.2340	-.2330	-.2270	.0000	-.2310	-.2110	-.2440
	MACH (1) = 1.555	BETAT (6) = 5.990	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
			A	.000	-.2300	-.2360	-.2330	-.2280	.0000	-.2330	-.1990	-.2450
	MACH (1) = 1.555	BETAT (7) = 8.040	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
			A	.000	-.2380	-.2420	-.2390	-.2350	.0000	-.2400	-.2020	-.2520
	MACH (2) = 2.000	BETAT (1) = -8.310	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
			A	.000	-.1710	-.1750	-.1740	-.1720	.0000	-.1650	-.1810	-.2290
	MACH (2) = 2.000	BETAT (2) = -6.260	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
			A	.000	-.1770	-.1810	-.1830	-.1810	.0000	-.1740	-.1920	-.2330
	MACH (2) = 2.000	BETAT (3) = -4.220	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
			A	.000	-.1800	-.1830	-.1840	-.1830	.0000	-.1770	-.1930	-.2280

DATE 21 SEP 73

TABLATED PRESSURE DATA - 1A96
 ARES 97-707 1A9 ORA + S3 + T9 ORBITER BASE

(RBOC19)

DEPENDENT VARIABLE CP

SECTION (1) ORBITER BASE

MACH (2) = 2.000	BETAT (4) = -.140	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A											
			-.1770	-.1820	-.1820	-.1790	.0000	-.1770	-.1810	-.2020	-.1940
MACH (2) = 2.000	BETAT (5) = 3.930	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A											
			-.1770	-.1810	-.1830	-.1800	.0000	-.1790	-.1790	-.2010	-.1890
MACH (2) = 2.000	BETAT (6) = 5.980	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A											
			-.1740	-.1780	-.1800	-.1760	.0000	-.1740	-.1630	-.1930	-.1860
MACH (2) = 2.000	BETAT (7) = 8.020	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
A											
			-.1790	-.1830	-.1840	-.1800	.0000	-.1800	-.1610	-.1930	-.1940

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 20.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0350 SCALE

PARAMETRIC DATA

ALPHA = 4.0000 ORBINC = .0000
RUDDER = -10.0000 ELEVON = .0000
RUFLR = .0000

DEPENDENT VARIABLE CP

SECTION (1) ORBITER BASE	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
MACH (1) = 1.555 BETAT (1) = -8.300	A	.000	-.2540	-.2660	-.2520	-.2540	.0000	-.2550	-.3020	-.2830
MACH (1) = 1.555 BETAT (2) = -6.270	A	.000	-.2490	-.2520	-.2480	.0000	-.2480	-.2900	-.2900	-.2770
MACH (1) = 1.555 BETAT (3) = -4.220	A	.000	-.2500	-.2450	-.2430	.0000	-.2470	-.2490	-.2860	-.2690
MACH (1) = 1.555 BETAT (4) = -.130	A	.000	-.2320	-.2350	-.2310	.0000	-.2310	-.2140	-.2330	-.2410
MACH (1) = 1.555 BETAT (5) = 3.960	A	.000	-.2420	-.2450	-.2390	.0000	-.2430	-.2240	-.2480	-.2500
MACH (1) = 1.555 BETAT (6) = 6.010	A	.000	-.2650	-.2460	-.2450	-.2430	.0000	-.2470	-.2130	-.2510
MACH (1) = 1.555 BETAT (7) = 8.060	A	.000	-.2580	-.2590	-.2610	-.2570	.0000	-.2580	-.2710	-.2650
MACH (2) = 2.000 BETAT (1) = -8.280	A	.000	-.1810	-.1850	-.1860	-.1830	.0000	-.1810	-.1890	-.1950
MACH (2) = 2.000 BETAT (2) = -6.240	A	.000	-.1820	-.1850	-.1870	-.1860	.0000	-.1810	-.1880	-.2060
MACH (2) = 2.000 BETAT (3) = -4.210	A	.000	-.1850	-.1890	-.1880	-.1890	.0000	-.1840	-.1910	-.2070

AMES 97-707 IAS OZA + S3 + T9 ORBITER BASE

(RBOCC2D)

SECTION (3) ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) = 2.0000	BETAT (4) = -0.130	TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000
		A	.0000	-0.1800	-0.1840	-0.1840	.0000	7.1800	-0.1900	-0.2000	-0.1980
MACH (2) = 2.0000	BETAT (5) = 3.9950	TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000
		A	.0000	-0.1870	-0.1910	-0.1910	.0000	-0.1890	-0.1920	-0.2130	-0.2010
MACH (2) = 2.0000	BETAT (6) = 5.9950	TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000
		A	.0000	-0.1820	-0.1840	-0.1850	.0000	-0.1890	-0.1770	-0.2050	-0.1920
MACH (2) = 2.0000	BETAT (7) = 8.0000	TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000
		A	.0000	-0.1900	-0.1960	-0.1940	.0000	-0.1910	-0.1840	-0.2070	-0.2010

AMES 97-707 1A9 Q2A + S3 + T9 ORBITER BASE

(RBOC21) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 90.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.0000 ORBINC = .0000
 RUDDER = -10.0000 ELEVON = .0000
 RUDFLR = .0000

SECTION (1) ORBITER BASE

DEPENDENT VARIABLE CP

MACH (1) = 1.955	BETAT (1) = -8.330	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2580	-.2640	-.2580	-.2590	.0000	-.2570	-.2600	-.3100	1.2880
MACH (1) = 1.955	BETAT (2) = -6.290	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2550	-.2600	-.2550	-.2550	.0000	-.2540	-.2580	-.2960	-.2830
MACH (1) = 1.955	BETAT (3) = -4.230	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2510	-.2540	-.2490	-.2480	.0000	-.2500	-.2470	-.2820	-.2730
MACH (1) = 1.955	BETAT (4) = -.120	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2350	-.2370	-.2320	-.2350	.0000	-.2350	-.2250	-.2350	-.2450
MACH (1) = 1.955	BETAT (5) = 3.980	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2440	-.2470	-.2460	-.2420	.0000	-.2450	-.2300	-.2540	-.2550
MACH (1) = 1.955	BETAT (6) = 6.000	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2500	-.2520	-.2530	-.2490	.0000	-.2520	-.2270	-.2580	-.2600
MACH (1) = 1.955	BETAT (7) = 6.110	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2620	-.2640	-.2650	-.2620	.0000	-.2610	-.2330	-.2680	-.2690
MACH (2) = 2.000	BETAT (1) = -8.310	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1830	-.1870	-.1890	-.1870	.0000	-.1830	-.1830	-.2230	-.1980
MACH (2) = 2.000	BETAT (2) = -6.260	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1880	-.1910	-.1930	-.1920	.0000	-.1870	-.1910	-.2400	-.2190
MACH (2) = 2.000	BETAT (3) = -4.210	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1870	-.1910	-.1920	-.1920	.0000	-.1870	-.1820	-.2310	-.2110

AMES 97-707 IAB OEA + S3 + T9 ORBITER BASE

(RBCC21)

SECTION (1) ORBITER BASE

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = -.120	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1600	-.1840	-.1860	-.1850	.0000	-.1820	-.1890	-.2000	-.1980
MACH (2) = 2.000	BETAT (5) = 3.970	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1680	-.1940	-.1960	-.1920	.0000	-.1930	-.1940	-.2150	-.2140
MACH (2) = 2.000	BETAT (6) = 6.020	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1660	-.1910	-.1930	-.1950	.0000	-.1890	-.1860	-.2130	-.1970
MACH (2) = 2.000	BETAT (7) = 8.070	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1920	-.1970	-.1980	-.1960	.0000	-.1950	-.1940	-.2140	-.2130

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0314 SCALE

SECTION (1) ORBITER BASE

MACH (1) = 1.555 BETAT (1) = -8.360

MACH (1) = 1.555 BETAT (2) = -6.310

MACH (1) = 1.555 BETAT (3) = -4.230

MACH (1) = 1.555 BETAT (4) = -1.110

MACH (1) = 1.555 BETAT (5) = 3.940

MACH (1) = 1.555 BETAT (6) = 6.060

MACH (1) = 1.555 BETAT (7) = 8.120

MACH (2) = 2.040 BETAT (1) = -8.330

MACH (2) = 2.040 BETAT (2) = -6.280

MACH (2) = 2.040 BETAT (3) = -4.220

PARAMETRIC DATA

ALPHAT = 8.0000 ORBINC = .0000
 RUDDER = -10.0000 ELEVON = .0000
 RUDDFLR = .0000

DEPENDENT VARIABLE CP

TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
TAP NO A	-.2650	-.2700	-.2650	-.2660	.0000	-.2630	-.2620	-.3170	-.2850
TAP NO A	-.2590	-.2620	-.2570	-.2560	.0000	-.2570	-.2630	-.3050	-.2790
TAP NO A	-.2520	-.2570	-.2510	-.2490	.0000	-.2530	-.2490	-.2840	-.2710
TAP NO A	-.2380	-.2410	-.2350	-.2350	.0000	-.2380	-.2220	-.2370	-.2460
TAP NO A	-.2480	-.2510	-.2510	-.2460	.0000	-.2490	-.2350	-.2620	-.2610
TAP NO A	-.2560	-.2590	-.2590	-.2560	.0000	-.2570	-.2370	-.2630	-.2640
TAP NO A	-.2680	-.2690	-.2710	-.2670	.0000	-.2680	-.2460	-.2750	-.2750
TAP NO A	-.1810	-.1850	-.1850	-.1840	.0000	-.1810	-.1710	-.2180	-.1980
TAP NO A	-.1870	-.1910	-.1930	-.1920	.0000	-.1870	-.1890	-.2260	-.2140
TAP NO A	-.1940	-.1960	-.1960	-.1940	.0000	-.1940	-.1930	-.2340	-.2190

AVES 97-707 1A9 OBA + S3 + T9 ORBITER BASE

(RBOC22)

SECTION (1) ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = -0.110	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1860	-.1890	-.1890	.0000	-.1880	-.1920	-.2195	-.2010
MACH (2) = 2.000	BETAT (5) = 4.000	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1900	-.1940	-.1960	-.1930	.0000	-.1940	-.1950	-.2130
MACH (2) = 2.000	BETAT (6) = 6.050	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1860	-.1910	-.1880	.0000	-.1890	-.1840	-.2080	-.1950
MACH (2) = 2.000	BETAT (7) = 6.110	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1900	-.1960	-.1940	.0000	-.1930	-.1910	-.2210	-.1980

DATE 21 SEP 73 TABULATED PRESSURE DATA - IA98

AMES 97-707 1A9 OCA + S3 + T9 ORBITER BASE

(RBCC23) (24 MAY 73)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES ALPHAT = -8.1000 ORBINC = .1000
 LREF = 39.8490 INCHES YMRP = .1400 INCHES RUDDER = 15.1000 ELEVON = .1000
 BREF = 39.8490 INCHES ZMRP = .1400 INCHES RUFLR = .1000
 SCALE = .0300 SCALE

DEPENDENT VARIABLE CP

SECTION (1) ORBITER BASE	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
MACH (1) = 1.555 BETAT (1) = -8.400	A	.1000	-.2180	-.2270	-.2190	-.2030	.0000	-.2010	-.2310	-.2920
MACH (1) = 1.555 BETAT (2) = -6.360	A	.1000	-.2160	-.2250	-.2170	-.2040	.0000	-.2090	-.2230	-.2880
MACH (1) = 1.555 BETAT (3) = -4.290	A	.1000	-.2280	-.2360	-.2260	-.2120	.0000	-.2210	-.2360	-.2870
MACH (1) = 1.555 BETAT (4) = -.170	A	.1000	-.2420	-.2520	-.2440	-.2350	.0000	-.2380	-.2490	-.2740
MACH (1) = 1.555 BETAT (5) = 3.940	A	.1000	-.2180	-.2270	-.2170	-.2080	.0000	-.2280	-.1940	-.2130
MACH (1) = 1.555 BETAT (5) = 9.160	A	.1000	-.2150	-.2240	-.2130	-.2080	.0000	-.2320	-.1940	-.2180
MACH (2) = 2.040 BETAT (1) = -8.360	A	.1000	-.1540	-.1590	-.1580	-.1550	.0000	-.1510	-.1830	-.2300
MACH (2) = 2.040 BETAT (2) = -6.330	A	.1000	-.1660	-.1710	-.1720	-.1680	.0000	-.1610	-.1940	-.2360
MACH (2) = 2.040 BETAT (3) = -4.280	A	.1000	-.1610	-.1670	-.1660	-.1610	.0000	-.1530	-.1810	-.2230
MACH (2) = 2.040 BETAT (4) = -.170	A	.1000	-.1590	-.1650	-.1620	-.1590	.0000	-.1590	-.1710	-.1990

AMES 97-707 IAB CEA + S3 + T9 ORBITER BASE (RBOC23)

SECTION (1) ORBITER BASE DEPENDENT VARIABLE CF

MACH (2) = 2.000	BETAT (5) = 3.990	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1660	-.1710	-.1690	-.1675	.0000	-.1650	-.1710	-.1960	-.1830
MACH (2) = 2.000	BETAT (6) = 5.980	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1690	-.1740	-.1710	.0000	-.1690	-.1670	-.1940	-.1830	
MACH (2) = 2.000	BETAT (7) = 8.040	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1630	-.1690	-.1630	-.1640	.0000	-.1690	-.1540	-.1940	-.1780

AMES 97-707 1A9 OEA + S3 + T9 ORBITER BASE

(RBCC24) (24 MAY 75)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LBREF = 39.8490 INCHES YMRP = .0000 INCHES
 BRREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHAT = -4.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

PARAMETRIC DATA

SECTION (1) ORBITER BASE DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -6.330	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2330	-.2190	-.2310	-.2210	.0000	-.2220	-.2360	-.3090	-.2450
MACH (1) = 1.555	BETAT (2) = -6.290	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2280	-.2340	-.2260	-.2200	.0000	-.2220	-.2280	-.2910	-.2420
MACH (1) = 1.555	BETAT (3) = -4.240	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2330	-.2430	-.2310	-.2210	.0000	-.2340	-.2350	-.2830	-.2460
MACH (1) = 1.555	BETAT (4) = -.150	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2450	-.2320	-.2480	-.2390	.0000	-.2430	-.2410	-.2670	-.2620
MACH (1) = 1.555	BETAT (5) = 3.940	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2280	-.2370	-.2330	-.2210	.0000	-.2290	-.2090	-.2240	-.2410
MACH (1) = 1.555	BETAT (6) = 5.980	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2270	-.2350	-.2300	-.2250	.0000	-.2300	-.2340	-.2340	-.2400
MACH (1) = 1.555	BETAT (7) = 6.030	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.2280	-.2330	-.2280	-.2190	.0000	-.2360	-.2010	-.2290	-.2370
MACH (2) = 2.000	BETAT (1) = -6.310	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1620	-.1660	-.1650	-.1650	.0000	-.1530	-.1830	-.2280	-.1860
MACH (2) = 2.000	BETAT (2) = -6.270	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1710	-.1750	-.1760	-.1730	.0000	-.1680	-.1910	-.2350	-.2000
MACH (2) = 2.000	BETAT (3) = -4.230	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	
		A	.000	-.1740	-.1780	-.1780	-.1770	.0000	-.1690	-.1920	-.2300	-.1990

AVES 27-707 1A9 02A + S2 + T9 ORBITER BASE

(RBOC25) (24 MAY 73)

EXPEND ATZ

SREF = 2.4210 SQ. FT. XREF = 26.5300 INCHES
 LREF = 39.8490 INCHES YREF = 10.0000 INCHES
 BREF = 39.8490 INCHES ZREF = 10.0000 INCHES
 SCALE = .0300 SCALE

ALPHAT = .0000 ORBINC = .0000
 RUDDER = 15.0000 ELEVON = .0000
 RUDFLR = .0000

PARAMETRIC DATA

DEPENDENT VARIABLE CP

SECTION (1) ORBITER BASE	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
MACH (1) = 1.555 BETAT (1) = -8.320	A	.0000	-.2510	-.2550	-.2470	.0000	-.2400	-.2570	-.3100	-.2710
MACH (1) = 1.555 BETAT (2) = -6.270	A	.0000	-.2380	-.2430	-.2340	.0000	-.2320	-.2460	-.2910	-.2640
MACH (1) = 1.555 BETAT (3) = -4.240	A	.0000	-.2410	-.2360	-.2320	.0000	-.2350	-.2460	-.2920	-.2680
MACH (1) = 1.555 BETAT (4) = -1.130	A	.0000	-.2410	-.2450	-.2370	.0000	-.2390	-.2320	-.2680	-.2550
MACH (1) = 1.555 BETAT (5) = 3.950	A	.0000	-.2380	-.2460	-.2360	.0000	-.2420	-.2270	-.2570	-.2500
MACH (1) = 1.555 BETAT (6) = 5.950	A	.0000	-.2420	-.2480	-.2410	.0000	-.2440	-.2240	-.2640	-.2530
MACH (1) = 1.555 BETAT (7) = 8.040	A	.0000	-.2440	-.2460	-.2420	.0000	-.2460	-.2130	-.2520	-.2530
MACH (2) = 2.000 BETAT (1) = -8.290	A	.0000	-.1730	-.1770	-.1740	.0000	-.1670	-.1810	-.2290	-.1890
MACH (2) = 2.000 BETAT (2) = -6.250	A	.0000	-.1730	-.1760	-.1760	.0000	-.1690	-.1890	-.2300	-.1930
MACH (2) = 2.000 BETAT (3) = -4.210	A	.0000	-.1780	-.1820	-.1810	.0000	-.1750	-.1910	-.2290	-.1960

DATE 21 SEP 79 TABULATED PRESSURE DATA - 1A98
AMES 97-787 1A9 CSA + S5 + T9 ORBITER BASE (RBOCC??)

SECTION (1) ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) =	2.000	BETAT (4) =	-0.140	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
				A	.000	-.1780	-.1830	-.1820	-.1810	.0000	-.1780	-.2060	-.1950
MACH (2) =	2.000	BETAT (5) =	3.990	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
				A	.000	-.1820	-.1870	-.1890	-.1860	.0000	-.1840	-.2110	-.1970
MACH (2) =	2.000	BETAT (6) =	8.020	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
				A	.000	-.1770	-.1800	-.1820	-.1790	.0000	-.1780	-.1910	-.1890

DATE: SEP 13 1968

ALPHAT = 4.0000 ORBINC = 9.0000
RUDDER = 15.0000 ELEVON = 9.0000
RUDFLR = 1.0000

PARAMETRIC DATA

REF = 2.4211 SQ. FT. WAFZ = 28.5300 INCHES
LREF = 59.1430 INCH WAFB = 1.0000 INCHES
BREF = 59.8430 INCH WAFS = 1.0000 INCHES
SCALE = 1.0000 SCALE

DEPENDENT VARIABLE CP

SECTION (1)	ORBITER BASE	TAP NO	1.0000	2.0000	3.0000	4.0000	5.0000	6.0000	7.0000	8.0000	9.0000
MACH (1) = 1.555	BETAT (1) = -8.3000	A	-0.2560	-0.2620	-0.2550	-0.2570	.0000	-0.2540	-0.2570	-0.3100	-0.2840
MACH (1) = 1.555	BETAT (2) = -6.2500	A	-0.2470	-0.2520	-0.2450	-0.2480	.0000	-0.2440	-0.2530	-0.2910	-0.2760
MACH (1) = 1.555	BETAT (3) = -4.2200	A	-0.2470	-0.2510	-0.2420	-0.2440	.0000	-0.2430	-0.2530	-0.2880	-0.2680
MACH (1) = 1.555	BETAT (4) = -1.1200	A	-0.2390	-0.2410	-0.2350	-0.2340	.0000	-0.2330	-0.2220	-0.2420	-0.2440
MACH (1) = 1.555	BETAT (5) = 3.9600	A	-0.2540	-0.2560	-0.2530	-0.2490	.0000	-0.2540	-0.2390	-0.2660	-0.2620
MACH (1) = 1.555	BETAT (6) = 6.0000	A	-0.2560	-0.2620	-0.2610	-0.2560	.0000	-0.2530	-0.2170	-0.2640	-0.2560
MACH (1) = 1.555	BETAT (7) = 8.0000	A	-0.2550	-0.2580	-0.2580	-0.2540	.0000	-0.2570	-0.2230	-0.2630	-0.2640
MACH (2) = 2.0000	BETAT (1) = -8.2800	A	-0.1780	-0.1820	-0.1820	-0.1810	.0000	-0.1760	-0.1870	-0.2370	-0.1950
MACH (2) = 2.0000	BETAT (2) = -6.2300	A	-0.1810	-0.1850	-0.1860	-0.1850	.0000	-0.1810	-0.1910	-0.2380	-0.2050
MACH (2) = 2.0000	BETAT (3) = -4.2000	A	-0.1830	-0.1870	-0.1870	-0.1870	.0000	-0.1830	-0.1910	-0.2340	-0.2040

(RBOC26)

AKES 97-707 1A9 ORA + S3 + T9 ORBITER BASE

SECTION (1) ORBITER BASE DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = -0.120	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1810	-.1860	-.1860	.0000	-.1810	-.1920	-.2120	-.2010
MACH (2) = 2.000	BETAT (5) = 3.950	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1930	-.1980	-.1990	.0000	-.1960	-.2040	-.2230	-.2180
MACH (2) = 2.000	BETAT (6) = 5.990	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1880	-.1930	-.1920	.0000	-.1890	-.1860	-.2160	-.2040
MACH (2) = 2.000	BETAT (7) = 9.030	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1910	-.1960	-.1960	.0000	-.1910	-.1870	-.2080	-.2040

REFLECTED PRESSURE DATA - IA9B

AME: 97-707 IA9 OSA + S3 + T9 ORBITER BASE

(RBOC27) (24 MAY 75)

PARAMETRIC DATA

ALPHAT = 6.0000 CRBINC = 0.0000
 RUDDER = 15.0000 ELEVON = 0.0000
 RUDFLR = 0.0000

REFERENCE DATA

SREF = 2.4210 SQ. INCHES
 LREF = 39.8490 INCHES
 BREF = 39.8490 INCHES
 SCALE = .00300 SCALE

SECTION (1) ORBITER BASE

DEPENDENT VARIABLE CP

MACH	BETAT (1)	BETAT (2)	BETAT (3)	BETAT (4)	BETAT (5)	BETAT (6)	BETAT (7)	BETAT (8)	BETAT (9)
1.555	-9.330	-6.270	-4.230	-1.110	3.990	6.030	9.090	9.090	9.090
2.000	-8.330	-6.270	-4.230	-1.110	3.990	6.030	9.090	9.090	9.090
2.500	-8.330	-6.270	-4.230	-1.110	3.990	6.030	9.090	9.090	9.090
3.000	-8.330	-6.270	-4.230	-1.110	3.990	6.030	9.090	9.090	9.090
3.500	-8.330	-6.270	-4.230	-1.110	3.990	6.030	9.090	9.090	9.090
4.000	-8.330	-6.270	-4.230	-1.110	3.990	6.030	9.090	9.090	9.090
4.500	-8.330	-6.270	-4.230	-1.110	3.990	6.030	9.090	9.090	9.090
5.000	-8.330	-6.270	-4.230	-1.110	3.990	6.030	9.090	9.090	9.090
5.500	-8.330	-6.270	-4.230	-1.110	3.990	6.030	9.090	9.090	9.090
6.000	-8.330	-6.270	-4.230	-1.110	3.990	6.030	9.090	9.090	9.090
6.500	-8.330	-6.270	-4.230	-1.110	3.990	6.030	9.090	9.090	9.090
7.000	-8.330	-6.270	-4.230	-1.110	3.990	6.030	9.090	9.090	9.090
7.500	-8.330	-6.270	-4.230	-1.110	3.990	6.030	9.090	9.090	9.090
8.000	-8.330	-6.270	-4.230	-1.110	3.990	6.030	9.090	9.090	9.090
8.500	-8.330	-6.270	-4.230	-1.110	3.990	6.030	9.090	9.090	9.090
9.000	-8.330	-6.270	-4.230	-1.110	3.990	6.030	9.090	9.090	9.090

DATE 21 SEP 75

TABLATED PRESSURE DATA - 1A98
AMES 97-707 IAS O2A - S3 - T9 ORBITER BASE

(RBOC27)

SECTION : 1) ORBITER BASE
DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = -1.120	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
MACH (2) = 2.000 BETAT (4) = -1.120											
A											
MACH (2) = 2.000 BETAT (5) = 3.970											
A											
MACH (2) = 2.000 BETAT (6) = 6.030											
A											
MACH (2) = 2.000 BETAT (7) = 8.070											
A											

PROB 27-77 IAS 02A + S3 + T9 ORBITER BASE

DEPENDENT VARIABLE OF

SREF = 2.421 INCHES
 LREF = 33.849 INCHES
 SREF = 39.849 INCHES
 SCALE = 10000 SCALE

ALPHAT = 8.000
 PUDDER = 15.000
 RECDLR = 0.000

PARAMETRIC DATA

SECTION (INFINITE BASE

MACH	BETAT	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
MACH (1) = 1.555	BETAT (1) = -8.350	A	-1.2620	-1.2730	-1.2690	-1.2770	-1.2660	-1.2680	-1.2620	-1.2620	-1.2610
MACH (1) = 1.555	BETAT (2) = -6.320	A	-1.2610	-1.2650	-1.2580	-1.2580	-1.2580	-1.2550	-1.2500	-1.2480	-1.2470
MACH (1) = 1.555	BETAT (3) = -4.230	A	-1.2520	-1.2560	-1.2490	-1.2490	-1.2510	-1.2520	-1.2520	-1.2520	-1.2510
MACH (1) = 1.555	BETAT (4) = -2.110	A	-1.2420	-1.2440	-1.2410	-1.2410	-1.2410	-1.2410	-1.2410	-1.2410	-1.2410
MACH (1) = 1.555	BETAT (5) = 0.000	A	-1.2560	-1.2610	-1.2520	-1.2520	-1.2520	-1.2520	-1.2520	-1.2520	-1.2520
MACH (1) = 1.555	BETAT (6) = 8.000	A	-1.2630	-1.2660	-1.2660	-1.2660	-1.2660	-1.2660	-1.2660	-1.2660	-1.2660
MACH (1) = 1.555	BETAT (7) = 8.130	A	-1.2630	-1.2650	-1.2660	-1.2630	-1.2640	-1.2640	-1.2640	-1.2640	-1.2640
MACH (2) = 2.140	BETAT (1) = -8.320	A	-1.1810	-1.1850	-1.1840	-1.1850	-1.1850	-1.1790	-1.1730	-1.2180	-1.1960
MACH (2) = 2.140	BETAT (2) = -6.260	A	-1.1840	-1.1890	-1.1890	-1.1890	-1.1850	-1.1850	-1.1900	-1.2260	-1.2110
MACH (2) = 2.140	BETAT (3) = -4.210	A	-1.1860	-1.1890	-1.1920	-1.1900	-1.1870	-1.1960	-1.1870	-1.2310	-1.2060

AMES 97-707 1A9 OGA + S3 + T9 ORBITER BASE

(RBCC28)

SECTION (1) ORBITER BASE

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = -.115	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1890	-.1930	-.1940	-.1920	-.0000	-.1900	-.1980	-.2040
MACH (2) = 2.000	BETAT (5) = 3.990	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1970	-.2010	-.2030	-.2030	.0000	-.2030	-.2050	-.2110
MACH (2) = 2.000	BETAT (6) = 6.050	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1900	-.1940	-.1970	-.1940	.0000	-.1920	-.1930	-.2000
MACH (2) = 2.000	BETAT (7) = 6.110	TAP NO	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000
		A	.000	-.1920	-.1970	-.1990	-.1960	.0000	-.1950	-.1950	-.2040

DATE 21 SEP 73 (CALCULATED PRESSURE DATA - 1A9B)
 (RBOCUS) (24 MAY 73)

MODES 97-710 1A9 ORA + S3 + T9 UPPER MPS NOZZLE

REFERENC DATA

SREF = 2.4210 SQ. IN. XREF = 29.5300 INCHES
 LREF = 39.8490 INCHES YREF = 0.0000 INCHES
 BREF = 39.8490 INCHES ZREF = 0.0000 INCHES
 SCALE = 0.0310 SCALE

PARAMETRIC DATA

BETAT = 0.000 ORBINC = 0.500
 RUDDER = 0.000 ELEWON = 0.000
 RUDFLR = 0.000

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE
 MACH (1) = 1.555 ALPHAT(1) = -9.400

X/LNF	.250	.500	.750
PHI			
.100	-.2330	-.2340	
90.100	-.2370	-.2350	-.2330
135.100	-.2550	-.2460	-.2470
180.100	0.0690	-.0350	-.2440
225.100	-.2600	-.2450	-.2430
270.100	-.2340	-.2340	-.2310

MACH (1) = 1.555 ALPHAT(2) = -6.330

X/LNF	.250	.500	.750
PHI			
.100	-.2320	-.2330	
90.100	-.2360	-.2340	-.2300
135.100	-.2480	-.2450	-.2320
180.100	0.0260	-.0590	-.2440
225.100	-.2570	-.2430	-.2400
270.100	-.2330	-.2330	-.2290

MACH (1) = 1.555 ALPHAT(3) = -4.290

X/LNF	.250	.500	.750
PHI			
.100	-.2270	-.2290	
90.100	-.2330	-.2310	-.2300
135.100	-.2420	-.2430	-.2290
180.100	-.0120	-.0860	-.2410
225.100	-.2480	-.2380	-.2330
270.100	-.2320	-.2290	-.2260

MACH (1) = 1.555 ALPHAT(4) = -2.190

X/LNF	.250	.500	.750
PHI			
.100	-.2310	-.2310	
90.100	-.2340	-.2330	-.2320
135.100	-.2430	-.2460	-.2330
180.100	-.0400	-.1080	-.2410
225.100	-.2490	-.2420	-.2360
270.100	-.2340	-.2320	-.2310

MACH (1) = 1.555 ALPHAT(5) = -.120

X/LNF	.250	.500	.750
PHI			
.100	-.2330	-.2330	
90.100	-.2380	-.2390	-.2340
135.100	-.2440	-.2490	-.2360
180.100	-.0620	-.1220	-.2440
225.100	-.2520	-.2450	-.2380

TABLULATED PRESSURE DATA - 1A9B
AMES 97-707 1A9 O2A + S3 + T9 UPPER WFS NOZZLE

(R00001)

SECTION (1) WFS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.555 ALPHAT(5) = -.120
X/LNF .250 .500 .750
PHI
270.000 -.2368 -.2350 -.2340

MACH (1) = 1.555 ALPHAT(6) = 1.950
X/LNF .250 .500 .750
PHI
.000 -.2270 -.2260
90.000 1.2310 -.2290 -.2300
135.000 1.2320 -.2440 -.2290
180.000 1.0780 -.1500 -.2340
225.000 -.2400 -.2400 -.2310
270.000 -.2320 -.2290 -.2270

MACH (1) = 1.555 ALPHAT(7) = 4.010
X/LNF .250 .500 .750
PHI
.000 -.2250 -.2250
90.000 -.2290 -.2280 -.2280
135.000 -.2270 -.2350 -.2290
180.000 -.1860 -.1820 -.2280
225.000 -.2370 -.2350 -.2280
270.000 -.2300 -.2270 -.2250

MACH (1) = 1.555 ALPHAT(8) = 5.060
X/LNF .250 .500 .750
PHI
.000 -.2280 -.2290
90.000 -.2340 -.2310 -.2310
135.000 -.2320 -.2390 -.2310
180.000 -.1910 -.2120 -.2310
225.000 -.2360 -.2350 -.2310
270.000 -.2350 -.2320 -.2270

MACH (1) = 1.555 ALPHAT(9) = 6.130
X/LNF .250 .500 .750
PHI
.000 -.2270 -.2280
90.000 -.2330 -.2310 -.2290
135.000 -.2310 -.2350 -.2310
180.000 -.1080 -.2210 -.2290
225.000 -.2350 -.2310 -.2290
270.000 -.2340 -.2310 -.2260

MACH (2) = 2.000 ALPHAT(1) = -0.360
X/LNF .250 .500 .750
PHI
.000 -.1540 -.1550
90.000 -.1560 -.1540 -.1550
135.000 -.2210 -.1610 -.1730
180.000 .1570 .0460 -.1610
225.000 -.1950 -.1650 -.1670

AMES 97-707 IA9 O2A + S3 + T9 UPPER MPS NOZZLE

(RBC001)

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 ALPHAT(1) = -0.360

X/LNF	.250	.500	.750
PHI			
270.000	-.1550	-.1560	-.1520

MACH (2) = 2.000 ALPHAT(2) = -0.310

X/LNF	.250	.500	.750
PHI			
.000	-.1620	-.1630	
90.000	-.1650	-.1630	-.1630
135.000	-.2220	-.1690	-.1800
180.000	.1230	.0300	-.1680
225.000	-.1980	-.1760	-.1730
270.000	-.1630	-.1630	-.1590

MACH (2) = 2.000 ALPHAT(3) = -0.250

X/LNF	.250	.500	.750
PHI			
.000	-.1660	-.1670	
90.000	-.1680	-.1670	-.1690
135.000	-.2210	-.1760	-.1830
180.000	.0840	.0110	-.1740
225.000	-.1980	-.1800	-.1770
270.000	-.1690	-.1680	-.1650

MACH (2) = 2.000 ALPHAT(4) = -0.210

X/LNF	.250	.500	.750
PHI			
.000	-.1720	-.1730	
90.000	-.1750	-.1740	-.1750
135.000	-.2210	-.1820	-.1900
180.000	.0650	.0060	-.1800
225.000	-.2030	-.1890	-.1810
270.000	-.1750	-.1730	-.1740

MACH (2) = 2.000 ALPHAT(5) = -0.160

X/LNF	.250	.500	.750
PHI			
.000	-.1750	-.1760	
90.000	-.1770	-.1760	-.1760
135.000	-.2170	-.1870	-.1920
180.000	.0480	.0010	-.1840
225.000	-.2020	-.1920	-.1830
270.000	-.1790	-.1760	-.1730

MACH (2) = 2.000 ALPHAT(6) = 0.090

X/LNF	.250	.500	.750
PHI			
.000	-.1780	-.1790	
90.000	-.1800	-.1790	-.1780
135.000	-.2090	-.1870	-.1930
180.000	.0300	-.0040	-.1910
225.000	-.2030	-.1960	-.1910

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A88

(RECORD)

AMES 97-707 1A9 Q2A + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 2.5000 ALPHAT (6) = 1.890

X/LNF	.250	.500	.750
PHI			
270.000	-.1810	-.1780	-.1760

MACH (2) = 2.5000 ALPHAT (7) = 3.930

X/LNF	.250	.500	.750
PHI			
.000	-.1780	-.1810	
90.000	-.1830	-.1810	-.1840
135.000	-.1970	-.1890	-.1920
180.000	.0220	-.0330	-.1940
225.000	-.2030	-.1960	-.1860
270.000	-.1830	-.1820	-.1780

MACH (2) = 2.5000 ALPHAT (8) = 5.980

X/LNF	.250	.500	.750
PHI			
.000	-.1790	-.1820	
90.000	-.1830	-.1820	-.1830
135.000	-.1930	-.1850	-.1920
180.000	-.1430	-.0750	-.1920
225.000	-.2060	-.1990	-.1860
270.000	-.1840	-.1840	-.1840

MACH (2) = 2.5000 ALPHAT (9) = 8.020

X/LNF	.250	.500	.750
PHI			
.000	-.1850	-.1850	
90.000	-.1860	-.1860	-.1850
135.000	-.1980	-.1850	-.1940
180.000	-.0250	-.0940	-.1950
225.000	-.2090	-.2010	-.1890
270.000	-.1860	-.1870	-.1830

DATE 21 SEP 73

INSULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 CGA + S3 + T9 UPPER MPS NOZZLE

(RBC002) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 S.I. UNIT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = 0.0000 INCHES
 BRP = 39.8490 INCHES ZMRP = 0.0000 INCHES
 SCALE = 0.0001 SCALE

ALPHAT = 8.0000 ORBINC = +500
 RUDDER = 0.0000 ELEVON = 0.0000
 RUFLX = 0.0000

PARAMETRIC DATA

SECTION (1) : MPS NOZZLE

MACH (1) = 1.555 BETAT (1) = -7.140

X/LNF	.250	.500	.750
PHI			
.100	-.2550	-.2590	
90.1000	-.2630	-.2620	-.2630
135.1000	-.2810	-.2660	-.2630
180.1000	-.1580	-.2110	-.2640
225.1000	-.2870	-.2640	-.2630
270.1000	-.2670	-.2640	-.2630

MACH (2) = 1.555 BETAT (2) = -5.100

X/LNF	.250	.500	.750
PHI			
.100	-.2420	-.2460	
90.1000	-.2500	-.2470	-.2460
135.1000	-.2580	-.2630	-.2450
180.1000	-.1940	-.1570	-.2580
225.1000	-.2610	-.2630	-.2510
270.1000	-.2520	-.2510	-.2490

MACH (3) = 1.555 BETAT (3) = -3.050

X/LNF	.250	.500	.750
PHI			
.100	-.2380	-.2410	
90.1000	-.2470	-.2420	-.2390
135.1000	-.2560	-.2470	-.2400
180.1000	-.1180	-.2060	-.2470
225.1000	-.2570	-.2480	-.2410
270.1000	-.2450	-.2420	-.2390

MACH (4) = 1.555 BETAT (4) = 5.110

X/LNF	.250	.500	.750
PHI			
.100	-.2460	-.2470	
90.1000	-.2550	-.2520	-.2520
135.1000	-.2680	-.2640	-.2520
180.1000	-.1540	-.1660	-.2550
225.1000	-.2770	-.2580	-.2500
270.1000	-.2510	-.2470	-.2470

MACH (5) = 1.555 BETAT (5) = 7.140

X/LNF	.250	.500	.750
PHI			
.100	-.2560	-.2580	
90.1000	-.2670	-.2630	-.2620
135.1000	-.2840	-.2670	-.2610
180.1000	-.1810	-.1650	-.2700
225.1000	-.2900	-.2630	-.2630

DATE 21 SEP 75

TABULATED PRESSURE DATA - 1A98

AMES 97-757 IAG O2A + S3 + T9 UPPER MPS NOZZLE

(RBOOY2)

DEPENDENT VARIABLE C_P

SECTION (1) MPS NOZZLE

MACH (1) = 1.555 BETAT (5) = 7.140

X/LNP	.250	.500	.750
PHI	270.000	-.2600	-.2580
			-.2560

MACH (1) = 1.555 BETAT (6) = 9.190

X/LNP	.250	.500	.750
PHI	.000	-.2600	-.2610
	90.000	-.2780	-.2710
	135.000	-.2880	-.2720
	180.000	-.1800	-.1340
	225.000	-.2990	-.2720
	270.000	-.2670	-.2670

MACH (2) = 2.000 BETAT (1) = -0.320

X/LNP	.250	.500	.750
PHI	.000	-.1800	-.1810
	90.000	-.1940	-.1850
	135.000	-.1930	-.1810
	180.000	-.1490	-.1040
	225.000	-.2030	-.1930
	270.000	-.1850	-.1840

MACH (2) = 2.000 BETAT (2) = -6.270

X/LNP	.250	.500	.750
PHI	.000	-.1860	-.1860
	90.000	-.1960	-.1890
	135.000	-.2030	-.1820
	180.000	-.1140	-.1060
	225.000	-.2020	-.2010
	270.000	-.1890	-.1870

MACH (2) = 2.000 BETAT (3) = -4.210

X/LNP	.250	.500	.750
PHI	.000	-.1670	-.1880
	90.000	-.1930	-.1890
	135.000	-.1990	-.1970
	180.000	-.1660	-.1720
	225.000	-.2030	-.2010
	270.000	-.1910	-.1940

MACH (2) = 2.000 BETAT (4) = 3.990

X/LNP	.250	.500	.750
PHI	.000	-.1930	-.1940
	90.000	-.1990	-.1970
	135.000	-.2180	-.2090
	180.000	-.1930	-.1530
	225.000	-.2240	-.2070
			-.2030

DATE 21 SEP 73 CALCULATED PRESSURE DATA - 1A98

AMES 97-707 1A9 CEA + S3 + T9 UPPER MPS NOZZLE

(RBC002)

SECTION (1) MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 2.1000 BETAT (4) = 3.990
 X/LNP .250 .500 .750
 PHI
 270.000 -.2010 -.1970 -.1920

MACH (2) = 2.1000 BETAT (5) = 5.1060
 X/LNP .250 .500 .750
 PHI
 .1000 -.1870 -.1890
 90.000 -.1930 -.1920 -.1930
 135.000 -.2070 -.2040 -.1930
 180.000 -.1980 .1010 -.2020
 225.000 -.2230 -.1860 -.1940
 270.000 -.1990 -.1920 -.1850

MACH (2) = 2.1000 BETAT (6) = 6.1200
 X/LNP .250 .500 .750
 PHI
 .0000 -.1930 -.1940
 90.000 -.2000 -.2000 -.2000
 135.000 -.2090 -.2010
 180.000 -.1890 -.1030 -.2090
 225.000 -.2240 -.1950 -.2020
 270.000 -.2050 -.1970 -.1900

TABULATED PRESSURE DATA - 1A98

(RBD003) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .03000 SCALE

PARAMETRIC DATA

ALPHAT = 6.0000 CRBINC = .5000
 RUDDER = .0000 ELEVON = .0000
 BUDDFLR = .0000

DEPENDENT VARIABLE CP

SECTION (1)	MACH (1)	BETAT (1)	X/LNP	PHI	Y/LNP	Z/LNP
NOZZLE	1.555	-7.112	.0000	-.2530	.5100	.7500
			.9000	-.2590	-.2560	-.2610
			1.3500	-.2880	-.2730	-.2670
			1.8000	-.1630	-.2110	-.2610
			2.2500	-.2810	-.2670	-.2590
2.7000	-.2620	-.2610	-.2570			
NOZZLE	1.555	-5.070	.0000	.2500	.5100	.7500
			.9000	-.2410	-.2430	-.2430
			1.3500	-.2470	-.2430	-.2430
			1.8000	-.2680	-.2620	-.2440
			2.2500	-.1770	-.1610	-.2540
2.7000	-.2620	-.2610	-.2480			
NOZZLE	1.555	-3.030	.0000	.2500	.5100	.7500
			.9000	-.2360	-.2380	-.2370
			1.3500	-.2440	-.2440	-.2360
			1.8000	-.2110	-.2180	-.2360
			2.2500	-.2530	-.2440	-.2410
2.7000	-.2420	-.2410	-.2390			
NOZZLE	1.555	5.000	.0000	.2500	.5100	.7500
			.9000	-.2410	-.2430	-.2470
			1.3500	-.2480	-.2460	-.2460
			1.8000	-.2640	-.2590	-.2460
			2.2500	-.1920	-.1630	-.2470
2.7000	-.2730	-.2570	-.2460			
NOZZLE	1.555	7.110	.0000	.2500	.5100	.7500
			.9000	-.2510	-.2540	-.2530
			1.3500	-.2620	-.2600	-.2540
			1.8000	-.2790	-.2690	-.2650
			2.2500	-.1500	-.1210	-.2650
2.7000	-.2480	-.2690	-.2610			

(RBC0013)

DATE 21 SEP 73 TABULATED PRESSURE DATA - IA9B
 AMES 97-757 IA9 OEA + S3 + T9 UPPER MPS NOZZLE

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE

MACH (1) = 1.555 BETAT (5) = 7.110
 X/LNF .250 .500 .750
 PHI
 275.1660 -2530 -2520 -2510

MACH (1) = 1.555 BETAT (6) = 9.140
 X/LNF .250 .500 .750
 PHI
 .166 -2560 -2580
 90.1000 -2740 -2680 -2670
 135.1660 -2860 -2700 -2690
 180.1660 -3190 -3020 -2660
 225.1660 -2920 -2730 -2680
 270.1660 -2680 -2590 -2570

MACH (2) = 2.100 BETAT (1) = -9.500
 X/LNF .250 .500 .750
 PHI
 .166 -1810 -1820
 90.1660 -1920 -1860 -1860
 135.1660 -1950 -1840 -1890
 180.1660 -1290 -1660 -1970
 225.1660 -2140 -1960 -1890
 270.1660 -1870 -1850 -1820

MACH (2) = 2.100 BETAT (2) = -6.250
 X/LNF .250 .500 .750
 PHI
 .166 -1820 -1830
 90.1660 -1940 -1880 -1880
 135.1660 -2130 -1890 -1890
 180.1660 -1110 -1450 -1970
 225.1660 -2120 -1980 -1880
 270.1660 -1880 -1870 -1830

MACH (2) = 2.100 BETAT (3) = -4.250
 X/LNF .250 .500 .750
 PHI
 .166 -1860 -1870
 90.1660 -1890 -1880 -1880
 135.1660 -2240 -2000 -1940
 180.1660 -1450 -1550 -2010
 225.1660 -2190 -1990 -1950
 270.1660 -1910 -1890 -1860

MACH (2) = 2.100 BETAT (4) = 3.900
 X/LNF .250 .500 .750
 PHI
 .166 -1910 -1920
 90.1660 -1970 -1940 -1950
 135.1660 -2100 -2020 -1940
 180.1660 -1690 -1630 -2050
 225.1660 -1880 -1870 -2010

AMES 97-707 IAS CEA + S3 + T9 UPPER MPS NOZZLE

(RBD053)

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (4) = 3.970

X/LNF .250 .500 .750
PHI
270.000 - .1980 - .1930 - .1910

MACH (2) = 2.000 BETAT (5) = 6.030

X/LNF .250 .500 .750
PHI
.000 - .1870 - .1890
90.000 - .1920 - .1910 - .1930
135.000 - .2080 - .2060 - .1940
180.000 - .1230 - .1120 - .2030
225.000 - .2290 - .1890 - .2010
270.000 - .1950 - .1910 - .1850

MACH (2) = 2.000 BETAT (6) = 8.100

X/LNF .250 .500 .750
PHI
.000 - .1990 - .1930
90.000 - .1990 - .1970 - .1980
135.000 - .2110 - .2100 - .1990
180.000 - .1460 - .1020 - .2090
225.000 - .2200 - .1980 - .2050
270.000 - .2020 - .1970 - .1900

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

AMES 97-717 1A9 CGA + S3 + T9 UPPER MPS NOZZLE (RBC054) (24 MAY 73)

PARAMETRIC DATA

ALPHAT = 4.140 ORBINC = .510
 RUDDER = .140 ELEVON = .100
 RUFLR = .140

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .14200 INCHES
 BREF = 39.8490 INCHES ZMRP = .14200 INCHES
 SCALE = .13140 SCALE

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE	MACH (1) = 1.555	BETAT (1) = -7.080	X/LNP	.250	.500	.750
			PHI	.140	-.2470	-.2490
				90.140	-.2510	-.2490
				135.140	-.2720	-.2530
				180.140	-.1170	-.1910
				225.140	-.2730	-.2680
				270.140	-.2550	-.2510
			X/LNP	.250	.500	.750
			PHI	.140	-.2410	-.2410
				90.140	-.2440	-.2410
				135.140	-.2710	-.2590
				180.140	-.1490	-.1610
				225.140	-.2620	-.2590
				270.140	-.2460	-.2430
			X/LNP	.250	.500	.750
			PHI	.140	-.2360	-.2380
				90.140	-.2410	-.2380
				135.140	-.2550	-.2480
				180.140	-.1980	-.2210
				225.140	-.2530	-.2410
				270.140	-.2430	-.2390
			X/LNP	.250	.500	.750
			PHI	.140	-.2410	-.2410
				90.140	-.2490	-.2470
				135.140	-.2670	-.2630
				180.140	-.1640	-.1150
				225.140	-.2780	-.2640
				270.140	-.2420	-.2410
			X/LNP	.250	.500	.750
			PHI	.140	-.2480	-.2490
				90.140	-.2560	-.2540
				135.140	-.2750	-.2690
				180.140	-.1180	-.1730
				225.140	-.2910	-.2710
				270.140	-.2540	-.2540

DATE 21 SEP 73

TABLULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 ORA + S3 + T9 UPPER MPS NOZZLE

(RBOC14)

SECTION (1) MPS NOZZLE		DEPENDENT VARIABLE CP	
MACH (1) = 1.555	BETAT (5) = 7.1480	X/LNF .250	.500 .750
		PHI 270.000	-.2490 -.2470 -.2460
MACH (1) = 1.555	BETAT (6) = 9.1100	X/LNF .250	.500 .750
		PHI 90.000	-.2530 -.2550
		PHI 90.000	-.2730 -.2660 -.2630
		PHI 135.000	-.2820 -.2710 -.2640
		PHI 180.000	-.1130 -.0610 -.2660
		PHI 225.000	-.3010 -.2790 -.2640
		PHI 270.000	-.2560 -.2520 -.2520
MACH (2) = 2.000	BETAT (1) = -9.2700	X/LNF .250	.500 .750
		PHI 90.000	-.1780 -.1790
		PHI 90.000	-.1890 -.1830 -.1840
		PHI 135.000	-.1890 -.1820 -.1880
		PHI 180.000	-.1210 -.1280 -.1960
		PHI 225.000	-.2140 -.1910 -.1830
		PHI 270.000	-.1860 -.1830 -.1800
MACH (2) = 2.000	BETAT (2) = -9.2400	X/LNF .250	.500 .750
		PHI 90.000	-.1820 -.1840
		PHI 90.000	-.1860 -.1840 -.1890
		PHI 135.000	-.2170 -.1940 -.1890
		PHI 180.000	-.1940 -.1820 -.1980
		PHI 225.000	-.2170 -.2170 -.1880
		PHI 270.000	-.1890 -.1860 -.1830
MACH (2) = 2.000	BETAT (3) = -4.2000	X/LNF .250	.500 .750
		PHI 90.000	-.1840 -.1890
		PHI 90.000	-.1880 -.1860 -.1860
		PHI 135.000	-.2280 -.2110 -.1910
		PHI 180.000	-.1140 -.1030 -.2000
		PHI 225.000	-.2110 -.1950 -.1960
		PHI 270.000	-.1890 -.1880 -.1840
MACH (2) = 2.000	BETAT (4) = 3.9500	X/LNF .250	.500 .750
		PHI 90.000	-.1860 -.1880
		PHI 90.000	-.1940 -.1910 -.1920
		PHI 135.000	-.2220 -.1960 -.1950
		PHI 180.000	-.1030 -.1050 -.2020
		PHI 225.000	-.2320 -.2120 -.1960

DATE 21 SEP 73

ABULATED PRESSURE DATA - 1A98
AMES 97-7J7 IAG OGA + S3 + T9 UPPER MPS NOZZLE

(RBOC'4)

SECTION (3) MPS NOZZLE
DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (4) = 3.950
X/LNF .250 .500 .750
PHI
270.000 -.1920 -.1900 -.1840

MACH (2) = 2.000 BETAT (5) = 5.990
X/LNF .250 .500 .750
PHI
.000 -.1860 -.1870
90.000 -.1890 -.1890 -.1900
135.000 -.2060 -.2040 -.1920
180.000 -.0880 .0260 -.2015
225.000 -.2290 -.1890 -.1980
270.000 -.1910 -.1870 -.1820

MACH (2) = 2.000 BETAT (6) = 6.030
X/LNF .250 .500 .750
PHI
.000 -.1940 -.1910
90.000 -.1990 -.1960 -.1960
135.000 -.2140 -.2070 -.1970
180.000 -.0350 -.0350 -.2090
225.000 -.2150 -.2010 -.2060
270.000 -.2030 -.1960 -.1870

(RBOCUS) (24 MAY 73)

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 OZA + S3 + T9 UPPER MPS NOZZLE

REFERENCE DATA

SREF = 2.4210 SQ. FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0310 SCALE

SECTION (1) MPS NOZZLE

MACH (1) = 1.555 BETAT (1) = -7.110

DEPENDENT VARIABLE CP

X/LNP .250 .500 .750
 PHI

.100	-.2450	-.2460
90.000	-.2470	-.2450
135.000	-.2860	-.2710
180.000	-.1840	-.1690
225.000	-.2740	-.2650
270.000	-.2520	-.2500

MACH (1) = 1.555 BETAT (2) = -5.070

X/LNP	.250	.500	.750
PHI			
.100	-.2400	-.2410	
90.000	-.2410	-.2410	-.2430
135.000	-.2730	-.2570	-.2450
180.000	-.1630	-.1370	-.2540
225.000	-.2620	-.2640	-.2470
270.000	-.2470	-.2430	-.2430

MACH (1) = 1.555 BETAT (3) = -3.050

X/LNP	.250	.500	.750
PHI			
.100	-.2330	-.2360	
90.000	-.2380	-.2350	-.2350
135.000	-.2530	-.2440	-.2360
180.000	-.1840	-.1950	-.2370
225.000	-.2540	-.2450	-.2390
270.000	-.2410	-.2380	-.2370

MACH (1) = 1.555 BETAT (4) = 5.050

X/LNP	.250	.500	.750
PHI			
.100	-.2390	-.2390	
90.000	-.2460	-.2430	-.2450
135.000	-.2670	-.2610	-.2450
180.000	-.1820	-.1660	-.2530
225.000	-.2790	-.2590	-.2440
270.000	-.2410	-.2370	-.2360

MACH (1) = 1.555 BETAT (5) = 7.070

X/LNP	.250	.500	.750
PHI			
.100	-.2410	-.2420	
90.000	-.2500	-.2480	-.2490
135.000	-.2730	-.2630	-.2490
180.000	-.1920	-.1670	-.2580
225.000	-.2860	-.2640	-.2470

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUOFLR = .000

AMES 97-7J7 IAS OCA + S3 + T9 UPPER MPS NOZZLE

(RBOOUS)

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 7.57J

X/LNF	.25J	.50J	.75J
PHI			
270.000	-.2420	-.2390	-.2380

MACH (1) = 1.555 BETAT (6) = 9.59J

X/LNF	.25J	.50J	.75J
PHI			
.000	-.2540	-.2550	
90.000	-.2660	-.2610	-.2600
135.000	-.2800	-.2730	-.2610
180.000	-.0680	-.0050	-.2700
225.000	-.3060	-.2820	-.2570
270.000	-.2550	-.2460	-.2450

MACH (2) = 2.000 BETAT (1) = -6.280

X/LNF	.25J	.50J	.75J
PHI			
.000	-.1730	-.1750	
90.000	-.1800	-.1780	-.1820
135.000	-.1990	-.1820	-.1830
180.000	-.0990	.0140	-.1910
225.000	-.1970	-.1840	-.1790
270.000	-.1840	-.1810	-.1760

MACH (2) = 2.000 BETAT (2) = -6.250

X/LNF	.25J	.50J	.75J
PHI			
.000	-.1760	-.1780	
90.000	-.1800	-.1770	-.1770
135.000	-.2100	-.1870	-.1830
180.000	-.0560	.0170	-.1910
225.000	-.2050	-.1950	-.1810
270.000	-.1830	-.1800	-.1780

MACH (2) = 2.000 BETAT (3) = -6.140

X/LNF	.25J	.50J	.75J
PHI			
.000	-.1790	-.1810	
90.000	-.1830	-.1810	-.1810
135.000	-.2100	-.1900	-.1850
180.000	-.0020	-.0080	-.1960
225.000	-.2060	-.1960	-.1880
270.000	-.1850	-.1830	-.1800

MACH (2) = 2.000 BETAT (4) = 3.940

X/LNF	.25J	.50J	.75J
PHI			
.000	-.1870	-.1880	
90.000	-.1940	-.1910	-.1900
135.000	-.2260	-.1950	-.1950
180.000	-.0280	.0170	-.2030
225.000	-.2220	-.2100	-.1990

DATE 21 SEP 73

TABLATED PRESSURE DATA - 1A98
 AMES 97-707 IAS CSA + S3 + T9 UPPER MPS NOZZLE

(R80003)

SECTION (1) MPS NOZZLE
 DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = 3.940	X/LNF	.250	.500	.750
		PHI			
		270.000	-.1920	-.1880	-.1840
MACH (2) = 2.000	BETAT (5) = 5.980	X/LNF	.250	.500	.750
		PHI			
		.000	-.1810	-.1820	
		90.000	-.1870	-.1850	-.1860
		135.000	-.2090	-.2030	-.1880
		180.000	-.0680	.0530	-.2110
		225.000	-.2240	-.1870	-.1980
		270.000	-.1880	-.1840	-.1790
MACH (2) = 2.000	BETAT (6) = 9.020	X/LNF	.250	.500	.750
		PHI			
		.000	-.1830	-.1850	
		90.000	-.1940	-.1920	-.1910
		135.000	-.2100	-.1960	-.1920
		180.000	-.0250	-.0710	-.2050
		225.000	-.2160	-.1950	-.2140
		270.000	-.1940	-.1920	-.1830

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 26.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0310 SCALE

PARAMETRIC DATA

ALPHAT = .0000 ORBINC = .9000
 RUDDER = .0000 ELEVON = .0000
 RUDDFLR = .0000

SECTION (1) NPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.100

X/LNP	.250	.500	.750
PHI			
.0000	-.2360	-.2380	
90.0000	-.2390	-.2380	-.2410
135.0000	-.2810	-.2560	-.2410
180.0000	-.0510	-.0740	-.2540
225.0000	-.2630	-.2630	-.2440
270.0000	-.2440	-.2410	-.2410

MACH (1) = 1.555 BETAT (2) = -5.080

X/LNP	.250	.500	.750
PHI			
.0000	-.2370	-.2390	
90.0000	-.2360	-.2360	-.2380
135.0000	-.2680	-.2490	-.2390
180.0000	-.0740	-.0920	-.2510
225.0000	-.2590	-.2560	-.2420
270.0000	-.2440	-.2410	-.2410

MACH (1) = 1.555 BETAT (3) = -3.060

X/LNP	.250	.500	.750
PHI			
.0000	-.2360	-.2380	
90.0000	-.2380	-.2370	-.2380
135.0000	-.2610	-.2450	-.2380
180.0000	-.0720	-.1460	-.2430
225.0000	-.2570	-.2510	-.2420
270.0000	-.2430	-.2410	-.2390

MACH (1) = 1.555 BETAT (4) = 5.050

X/LNP	.250	.500	.750
PHI			
.0000	-.2350	-.2350	
90.0000	-.2450	-.2410	-.2430
135.0000	-.2590	-.2630	-.2430
180.0000	-.1860	-.1400	-.2540
225.0000	-.2810	-.2540	-.2450
270.0000	-.2360	-.2340	-.2330

MACH (1) = 1.555 BETAT (5) = 7.080

X/LNP	.250	.500	.750
PHI			
.0000	-.2390	-.2380	
90.0000	-.2460	-.2430	-.2450
135.0000	-.2650	-.2630	-.2440
180.0000	-.0770	-.0120	-.2570
225.0000	-.2660	-.2570	-.2440

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B

AMES 97-707 IAG O2A + S3 + T9 UPPER MP5 NOZZLE

(RBCC:6)

DEPENDENT VARIABLE CP

SECTION (1) MP5 NOZZLE

MACH (1) = 1.555 BETAT (5) = 7.060
 X/LNF .250 .500 .750
 PHI
 270.000 -.2380 -.2350 -.2330

MACH (1) = 1.555 BETAT (6) = 9.080
 X/LNF .250 .500 .750
 PHI
 .000 -.2440 -.2460
 90.000 -.2580 -.2540 -.2520
 135.000 -.2700 -.2690 -.2530
 180.000 -.0530 .0110 -.2660
 225.000 -.2970 -.2720 -.2510
 270.000 -.2475 -.2400 -.2370

MACH (2) = 2.000 BETAT (1) = -8.290
 X/LNF .250 .500 .750
 PHI
 .000 -.1700 -.1710
 90.000 -.1740 -.1720 -.1740
 135.000 -.1980 -.1840 -.1780
 180.000 -.0730 .0460 -.1890
 225.000 -.1910 -.1870 -.1740
 270.000 -.1780 -.1750 -.1710

MACH (2) = 2.000 BETAT (2) = -6.230
 X/LNF .250 .500 .750
 PHI
 .000 -.1740 -.1760
 90.000 -.1800 -.1750 -.1740
 135.000 -.1930 -.1810 -.1800
 180.000 -.0370 .0310 -.1910
 225.000 -.2050 -.1990 -.1790
 270.000 -.1820 -.1800 -.1750

MACH (2) = 2.000 BETAT (3) = 7.130
 X/LNF .250 .500 .750
 PHI
 .000 -.1730 -.1750
 90.000 -.1800 -.1780 -.1770
 135.000 -.2150 -.1870 -.1920
 180.000 .0280 .0040 -.1880
 225.000 -.2070 -.1940 -.1820
 270.000 -.1790 -.1770 -.1730

MACH (2) = 2.000 BETAT (4) = 3.990
 X/LNF .250 .500 .750
 PHI
 .000 -.1810 -.1820
 90.000 -.1860 -.1820 -.1820
 135.000 -.2190 -.1940 -.1920
 180.000 -.0180 .0350 -.1960
 225.000 -.2140 -.1970 -.1910

(R80016)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98
AMES 97-707 1A9 O2A + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE		DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (4) = 3.950	X/LNF	.250 .500 .750
		PHI	
		270.000	-.1860 -.1810 -.1760
MACH (2) = 2.000	BETAT (5) = 5.980	X/LNF	.250 .500 .750
		PHI	
		.000	-.1770 -.1780
		90.000	-.1820 -.1840 -.1810
		135.000	-.2040 -.2010 -.1820
		180.000	-.0510 .1970 -.1950
		225.000	-.2140 -.1820 -.1940
		270.000	-.1830 -.1780 -.1730

(RBC007) (24 MAY 75)

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1A98
 AVES 97-707 1A9 02A + S3 + T9 UPPER MPS NOZZLE

PARAMETRIC DATA

ALPHA = -2.1400 ORBINC = .500
 RUDDER = .1400 ELEVON = .1400
 RUDDLE = .1400

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.3300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE	MACH (1) = 1.555	BETAT (1) = -7.110	X/LNP	.250	.500	.750
			PHI			
			.140	-.2330	-.2340	-.2380
			90.140	-.2350	-.2320	-.2380
			135.140	-.2730	-.2480	-.2370
			180.140	-.0790	-.0340	-.2540
			225.140	-.2660	-.2620	-.2410
			270.140	-.2430	-.2410	-.2380
			X/LNF	.250	.500	.750
			PHI			
			.140	-.2330	-.2320	-.2350
			90.140	-.2340	-.2340	-.2350
			135.140	-.2720	-.2460	-.2450
			180.140	-.0650	-.0920	-.2480
			225.140	-.2580	-.2560	-.2360
			270.140	-.2390	-.2360	-.2350
			X/LNF	.250	.500	.750
			PHI			
			.140	-.2310	-.2330	-.2340
			90.140	-.2310	-.2330	-.2340
			135.140	-.2610	-.2410	-.2330
			180.140	-.0620	-.1230	-.2430
			225.140	-.2530	-.2470	-.2370
			270.140	-.2390	-.2360	-.2350
			X/LNF	.250	.500	.750
			PHI			
			.140	-.2270	-.2270	-.2330
			90.140	-.2380	-.2330	-.2330
			135.140	-.2510	-.2590	-.2360
			180.140	-.0820	-.0470	-.2480
			225.140	-.2780	-.2460	-.2370
			270.140	-.2290	-.2280	-.2270
			X/LNF	.250	.500	.750
			PHI			
			.140	-.2270	-.2280	-.2370
			90.140	-.2410	-.2370	-.2370
			135.140	-.2690	-.2620	-.2370
			180.140	-.0620	-.0290	-.2520
			225.140	-.2780	-.2470	-.2460

MACH (1) = 1.555 BETAT (1) = -3.070

MACH (1) = 1.555 BETAT (2) = -5.090

MACH (1) = 1.555 BETAT (3) = -3.070

MACH (1) = 1.555 BETAT (4) = 5.060

MACH (1) = 1.555 BETAT (5) = 7.060

AMES 97-7:7 1A9 ORA + S3 + T9 UPPER MPS NOZZLE

(RBCOV17)

SECTION (1) MPS NOZZLE DEPENDENT VARIABLE CF

MACH (1) = 1.555 BETAT (5) = 7.064 X/LNF .25U .50U .75U
PHI
275.164U -.2320U -.2280U -.2260U -.2260U

MACH (1) = 1.555 BETAT (6) = 9.148 X/LNF .25U .50U .75U
PHI
.164U -.2290U -.2310U
91.162U -.2410U -.2370U -.2390U
135.162U -.2570U -.2590U -.2380U
180.164U -.1990U .1470U -.2580U
225.162U -.2910U -.2540U -.2380U
275.164U -.2330U -.2260U -.2220U

MACH (2) = 2.100U BETAT (1) = -6.310U X/LNF .25U .50U .75U
PHI
.120U -.1650U -.1680U
91.164U -.1700U -.1650U -.1670U
135.162U -.1680U -.1650U -.1720U
180.162U -.19340U .1160U -.1860U
225.164U -.1920U -.1940U -.1710U
275.164U -.1730U -.1740U -.1670U

MACH (2) = 2.100U BETAT (2) = -6.260U X/LNF .25U .50U .75U
PHI
.160U -.1720U -.1750U
91.164U -.1790U -.1730U -.1710U
135.164U -.1760U -.1750U -.1780U
180.164U -.1620U .1810U -.1840U
225.164U -.2060U -.1950U -.1790U
275.164U -.1820U -.1770U -.1730U

MACH (2) = 2.100U BETAT (3) = -4.230U X/LNF .25U .50U .75U
PHI
.160U -.1770U -.1790U
91.164U -.1810U -.1780U -.1770U
135.164U -.2020U -.1860U -.1830U
180.164U .1640U .19360U .1910U
225.164U -.2080U .1890U .1930U
275.164U -.1820U .1810U .1770U

MACH (2) = 2.100U BETAT (4) = 3.940U X/LNF .25U .50U .75U
PHI
.160U -.1760U -.1790U
91.164U -.1850U .1810U .1840U
135.164U .2220U .1910U .1920U
180.164U .1460U .1930U .1920U
225.164U .22160U .1940U .1900U

(RBC007)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98
 ANES 97-707 1A9 OEA + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = 3.940	X/LNP	.250	.500	.750
		PHI			
		270.000	-.1840	-.1830	-.1730
				.500	.750
MACH (2) = 2.000	BETAT (5) = 5.970	X/LNP	.250		
		PHI			
		.000	-.1720	-.1760	
		90.000	-.1810	-.1770	-.1780
		135.000	-.2110	-.1980	-.1810
		180.000	-.1430	-.1670	-.1930
		225.000	-.1980	-.1930	-.1930
		270.000	-.1830	-.1750	-.1740
MACH (2) = 2.000	BETAT (6) = 8.010	X/LNP	.250	.500	.750
		PHI			
		.000	-.1730	-.1760	
		90.000	-.1820	-.1780	-.1790
		135.000	-.2010	-.2040	-.1810
		180.000	-.1460	-.1330	-.1960
		225.000	-.1840	-.1890	-.1970
		270.000	-.1820	-.1750	-.1750

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = 10.0000 INCHES
 BRP = 39.8490 INCHES ZMRP = 10.0000 INCHES
 SCALE = 0.0300 SCALE

SECTION (1) NFS NOZZLE

MACH (1) = 1.955 BETAT (1) = -8.130

DEPENDENT VARIABLE CP		X/LNP	.250	.500	.750
PHI		.100	-.2260	-.2270	
		90.000	-.2270	-.2220	-.2280
		135.000	-.2730	-.2360	-.2380
		180.000	-.1180	-.1070	-.2450
		225.000	-.2670	-.2490	-.2320
		270.000	-.2380	-.2340	-.2310

MACH (1) = 1.955 BETAT (2) = -6.190

DEPENDENT VARIABLE CP		X/LNP	.250	.500	.750
PHI		.100	-.2240	-.2230	
		90.000	-.2250	-.2230	-.2250
		135.000	-.2740	-.2390	-.2410
		180.000	-.1670	-.1720	-.2400
		225.000	-.2550	-.2450	-.2280
		270.000	-.2330	-.2290	-.2270

MACH (1) = 1.955 BETAT (3) = -3.070

DEPENDENT VARIABLE CP		X/LNP	.250	.500	.750
PHI		.100	-.2280	-.2280	
		90.000	-.2300	-.2310	-.2300
		135.000	-.2590	-.2360	-.2400
		180.000	-.1090	-.1090	-.2400
		225.000	-.2490	-.2460	-.2330
		270.000	-.2340	-.2310	-.2300

MACH (1) = 1.955 BETAT (4) = 5.030

DEPENDENT VARIABLE CP		X/LNP	.250	.500	.750
PHI		.100	-.2210	-.2210	
		90.000	-.2310	-.2280	-.2270
		135.000	-.2470	-.2510	-.2280
		180.000	-.1030	-.1030	-.2310
		225.000	-.2760	-.2420	-.2090
		270.000	-.2240	-.2220	-.2220

MACH (1) = 1.955 BETAT (5) = 7.050

DEPENDENT VARIABLE CP		X/LNP	.250	.500	.750
PHI		.100	-.2220	-.2220	
		90.000	-.2340	-.2310	-.2290
		135.000	-.2680	-.2500	-.2290
		180.000	-.1090	-.1030	-.2450
		225.000	-.2780	-.2410	-.2430

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUOFLR = .000

(RBC006)

AMES 97-717 1A9 OCA * S3 * T9 UPPER MPS NOZZLE

SECTION / 1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (5) = 7.050	X/LNP	.250	.500	.750
PHI					
		270.000	-.2270	-.2230	-.2210
MACH (1) = 1.555	BETAT (6) = 9.070	X/LNP	.250	.500	.750
PHI					
		.000	-.2210	-.2220	
		90.000	-.2360	-.2310	-.2310
		135.000	-.2550	-.2540	-.2310
		180.000	-.0240	-.0470	-.2450
		225.000	-.2850	-.2460	-.2360
		270.000	-.2260	-.2210	-.2150
MACH (2) = 2.000	BETAT (1) = -8.310	X/LNP	.250	.500	.750
PHI					
		.000	-.1620	-.1650	
		90.000	-.1710	-.1640	-.1630
		135.000	-.1350	-.1470	-.1680
		180.000	.0480	.0840	-.1830
		225.000	-.2000	-.1940	-.1700
		270.000	-.1700	-.1670	-.1650
MACH (2) = 2.000	BETAT (2) = -6.270	X/LNP	.250	.500	.750
PHI					
		.000	-.1660	-.1720	
		90.000	-.1760	-.1710	-.1660
		135.000	-.1610	-.1730	-.1750
		180.000	.0230	-.0350	-.1850
		225.000	-.2080	-.1830	-.1870
		270.000	-.1780	-.1740	-.1680
MACH (2) = 2.000	BETAT (3) = -4.230	X/LNF	.250	.500	.750
PHI					
		.000	-.1680	-.1710	
		90.000	-.1760	-.1720	-.1680
		135.000	-.1870	-.1810	-.1760
		180.000	.0980	-.0270	-.1830
		225.000	-.2040	-.1780	-.1860
		270.000	-.1760	-.1750	-.1680
MACH (2) = 2.000	BETAT (4) = 3.920	X/LNF	.250	.500	.750
PHI					
		.000	-.1730	-.1760	
		90.000	-.1820	-.1780	-.1750
		135.000	-.2210	-.1890	-.1920
		180.000	.0450	.0270	-.1850
		225.000	-.2040	-.1920	-.1890

UNLATED PRESSURE DATA - IA98

AMES 97-707 IA9 O2A + S3 + T9 UPPER MPS NOZZLE

(RBO048)

SECTION (1) MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (4) = 3.920

X/LNF	.250	.500	.750
PHI			
270.000	-.1800	-.1770	-.1730

MACH (2) = 2.000 BETAT (5) = 5.960

X/LNF	.250	.500	.750
PHI			
.000	-.1760	-.1800	
90.000	-.1840	-.1810	-.1790
135.000	-.2270	-.1980	-.1930
180.000	.0260	.0170	-.1960
225.000	-.1890	-.2030	-.1980
270.000	-.1890	-.1830	-.1740

MACH (2) = 2.000 BETAT (6) = 8.000

X/LNF	.250	.500	.750
PHI			
.000	-.1680	-.1740	
90.000	-.1780	-.1770	-.1770
135.000	-.2100	-.2080	-.1800
180.000	.0240	.0400	-.1950
225.000	-.1620	-.1870	-.1970
270.000	-.1820	-.1720	-.1680

DATE 21 SEP 73

LABULATED PRESSURE DATA - 1A98

(RBOC49) (24 MAY 73)

AMES 97-707 1A9 OGA + S3 + T9 UPPER MPS NOZZLE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .14200 INCHES
 BREF = 39.8490 INCHES ZMRP = .14200 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.1000 ORBINC = .5000
 RUDDER = .5000 ELEVON = .0000
 RUCFLR = .5000

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.160	X/LNP	.250	.500	.750
SECTION (1) MPS NOZZLE					
PHI					
		.1000	-.2200	-.2190	
		90.1000	-.2190	-.2160	-.2170
		135.1000	-.2730	-.2230	-.2340
		180.1000	-.1230	-.0040	-.2330
		225.1000	-.2580	-.2420	-.2210
		270.1000	-.2280	-.2240	-.2190
SECTION (2) MPS NOZZLE					
PHI					
		.1000	-.2170	-.2160	
		90.1000	-.2180	-.2160	-.2190
		135.1000	-.2750	-.2300	-.2370
		180.1000	-.0530	-.0730	-.2370
		225.1000	-.2480	-.2440	-.2220
		270.1000	-.2240	-.2220	-.2190
SECTION (3) MPS NOZZLE					
PHI					
		.1000	-.2210	-.2210	
		90.1000	-.2210	-.2220	-.2230
		135.1000	-.2730	-.2290	-.2340
		180.1000	-.1410	-.1470	-.2340
		225.1000	-.2450	-.2460	-.2280
		270.1000	-.2290	-.2250	-.2240
SECTION (4) MPS NOZZLE					
PHI					
		.1000	-.2210	-.2210	
		90.1000	-.2300	-.2270	-.2270
		135.1000	-.2430	-.2490	-.2270
		180.1000	-.1680	-.1130	-.2370
		225.1000	-.2680	-.2330	-.2330
		270.1000	-.2210	-.2210	-.2210
SECTION (5) MPS NOZZLE					
PHI					
		.1000	-.2160	-.2140	
		90.1000	-.2240	-.2220	-.2210
		135.1000	-.2490	-.2510	-.2210
		180.1000	-.1670	-.1110	-.2380
		225.1000	-.2820	-.2380	-.2410

AMES 97-757 1A9 ORA + S3 + T9 UPPER MPS NOZZLE

(RBC009)

SECTION (1) MPS NOZ:

DEPENDENT VARIABLE CP

MACH (1) = 1.595 BETAT (5) = 5.680

X/LNF	.250	.500	.750
PHI			
270.000	-.2190	-.2160	-.2160

MACH (1) = 1.595 BETAT (6) = 7.740

X/LNF	.250	.500	.750
PHI			
.000	-.2180	-.2160	
90.000	-.2290	-.2280	-.2200
135.000	-.2660	-.2380	-.2210
180.000	-.0430	-.0620	-.2370
225.000	-.2790	-.2340	-.2390
270.000	-.2220	-.2180	-.2120

MACH (2) = 2.000 BETAT (1) = -8.340

X/LNF	.250	.500	.750
PHI			
.000	-.1530	-.1560	
90.000	-.1630	-.1560	-.1480
135.000	-.1240	-.1430	-.1610
180.000	.0400	.0630	-.1720
225.000	-.1970	-.1850	-.1650
270.000	-.1630	-.1590	-.1560

MACH (2) = 2.000 BETAT (2) = -6.300

X/LNF	.250	.500	.750
PHI			
.000	-.1600	-.1630	
90.000	-.1720	-.1650	-.1580
135.000	-.1370	-.1680	-.1720
180.000	.0570	.0380	-.1770
225.000	-.2060	-.1780	-.1830
270.000	-.1700	-.1670	-.1610

MACH (2) = 2.000 BETAT (3) = -4.250

X/LNF	.250	.500	.750
PHI			
.000	-.1630	-.1670	
90.000	-.1700	-.1680	-.1620
135.000	-.1710	-.1760	-.1720
180.000	.1480	-.0070	-.1720
225.000	-.2010	-.1730	-.1820
270.000	-.1710	-.1690	-.1630

MACH (2) = 2.000 BETAT (4) = 3.930

X/LNF	.250	.500	.750
PHI			
.000	-.1670	-.1700	
90.000	-.1610	-.1750	-.1710
135.000	-.2210	-.1880	-.1870
180.000	.0890	.0290	-.1800
225.000	-.1920	-.1900	-.1880

(R00009)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 OEA + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (4) = 3.930

X/LNP PHI	.250	.500	.750
270.000	-.1780	-.1740	-.1690

MACH (2) = 2.000 BETAT (5) = 8.020

X/LNP PHI	.000	.250	.500	.750
.000	-.1620	-.1650		
90.000	-.1700	-.1670	-.1660	
135.000	-.2120	-.1910	-.1760	
180.000	.0760	.0690	-.1880	
225.000	-.1390	-.1780	-.1920	
270.000	-.1780	-.1670	-.1650	

ABLATED PRESSURE DATA - 1A98 (RBC010) (24 MAY 73)

AME: 97-7.7 1A9 OCA + S3 + T9 UPPER MPS NOZZLE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 20.534 INCHES
 LREF = 39.0490 INCHES YMRP = .0220 INCHES
 BREF = 39.0490 INCHES ZMRP = .0220 INCHES
 SCALE = .0320 SCALE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE	MACH (1) = 1.595	BETAT (1) = -6.210	X/LNP	PHI	.250	.500	.750
SECTION (1) MPS NOZZLE	MACH (1) = 1.595	BETAT (1) = -6.210	X/LNP	PHI	.250	.500	.750
			.000	-.2100	-.2120	-.2080	
			90.000	-.2130	-.2100	-.2090	
			135.000	-.2750	-.2150	-.2300	
			180.000	-.0880	-.0450	-.2290	
SECTION (2) MPS NOZZLE	MACH (2) = 1.595	BETAT (2) = -6.210	X/LNP	PHI	.250	.500	.750
			.000	-.2110	-.2070	-.2090	
			90.000	-.2120	-.2100	-.2090	
			135.000	-.2690	-.2200	-.2300	
			180.000	-.0300	-.0560	-.2300	
SECTION (3) MPS NOZZLE	MACH (3) = 1.595	BETAT (3) = -4.220	X/LNP	PHI	.250	.500	.750
			.000	-.2140	-.2160	-.2180	
			90.000	-.2150	-.2150	-.2170	
			135.000	-.2720	-.2280	-.2320	
			180.000	-.0480	-.0760	-.2320	
SECTION (4) MPS NOZZLE	MACH (4) = 1.595	BETAT (4) = 3.650	X/LNP	PHI	.250	.500	.750
			.000	-.2130	-.2110	-.2170	
			90.000	-.2190	-.2180	-.2170	
			135.000	-.2350	-.2420	-.2170	
			180.000	-.0510	-.0250	-.2300	
SECTION (5) MPS NOZZLE	MACH (5) = 1.595	BETAT (5) = 3.710	X/LNP	PHI	.250	.500	.750
			.000	-.2110	-.2100	-.2130	
			90.000	-.2180	-.2150	-.2130	
			135.000	-.2410	-.2460	-.2120	
			180.000	-.0410	-.0300	-.2320	

AMES 97-7J7 1A9 CGA + S3 + T9 UPPER MPS NOZZLE (RBC01U)

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 5.710 X/LNF .250 .500 .750
 PHI
 275.1620 - .2140 - .2140 - .2140 - .2110

MACH (1) = 1.555 BETAT (6) = 7.770 X/LNF .250 .500 .750
 PHI
 .1620 - .2100 - .2100
 90.1600 - .2220 - .2190 - .2120
 135.1600 - .2570 - .2360 - .2130
 180.1640 - .1910 - .1910 - .2310
 225.1620 - .2790 - .2260 - .2300
 275.1600 - .2140 - .2140 - .2160

MACH (2) = 2.100 BETAT (1) = -6.390

X/LNF .250 .500 .750
 PHI
 .1620 - .1490 - .1520
 90.1600 - .1630 - .1540 - .1450
 135.1640 - .1980 - .1690 - .1630
 180.1620 .1560 - .1620 - .1680
 225.1620 - .1990 - .1750 - .1690
 275.1640 - .1640 - .1560 - .1510

MACH (2) = 2.100 BETAT (2) = -6.330

X/LNF .250 .500 .750
 PHI
 .1620 - .1590 - .1610
 90.1620 - .1710 - .1650 - .1570
 135.1640 - .1140 - .1750 - .1750
 180.1640 .1820 - .1820 - .1750
 225.1640 - .2150 - .1780 - .1830
 275.1640 - .1710 - .1670 - .1640

MACH (2) = 2.100 BETAT (3) = -4.280

X/LNF .250 .500 .750
 PHI
 .1620 - .1610 - .1640
 90.1620 - .1690 - .1660 - .1590
 135.1620 - .1580 - .1780 - .1730
 180.1640 .1850 .1830 - .1730
 225.1620 - .2140 - .1690 - .1820
 275.1640 - .1740 - .1670 - .1610

MACH (2) = 2.100 BETAT (4) = -3.170

X/LNF .250 .500 .750
 PHI
 .1620 - .1550 - .1560
 90.1640 - .1980 - .1970 - .1560
 135.1640 - .2210 - .1630 - .1750
 180.1640 .1510 .1530 - .1640
 225.1620 - .2140 - .1710 - .1740

DATE 21 SEP 73 TABULATED PRESSURE DATA - IAB8

(R80010)

AMES 97-707 IAS QEA + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE DEFENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (4) = -1.170
 X/LNP .250 .500 .750
 PHI
 270.000 -1.1590 -1.1600 -1.1540

MACH (2) = 2.000 BETAT (5) = 3.940
 X/LNP .250 .500 .750
 PHI
 .000 -1.1630 -1.1660
 90.000 -1.1780 -1.1720 -1.1670
 135.000 -1.2190 -1.1870 -1.1870
 180.000 .1220 .0390 -1.1750
 225.000 -1.1780 -1.1990 -1.1870
 270.000 -1.1770 -1.1740 -1.1630

MACH (2) = 2.000 BETAT (6) = 9.980
 X/LNP .250 .500 .750
 PHI
 .000 -1.1630 -1.1690
 90.000 -1.1780 -1.1710 -1.1600
 135.000 -1.2210 -1.1980 -1.1800
 180.000 .0980 -1.0210 -1.1770
 225.000 -1.1320 -1.2050 -1.1960
 270.000 -1.1870 -1.1750 -1.1680

MACH (2) = 2.000 BETAT (7) = 6.050
 X/LNP .250 .500 .750
 PHI
 .000 -1.1540 -1.1580
 90.000 -1.1640 -1.1610 -1.1580
 135.000 -1.2120 -1.1850 -1.1710
 180.000 .1070 .0420 -1.1790
 225.000 -1.1200 -1.1790 -1.1870
 270.000 -1.1780 -1.1640 -1.1550

(R80011) (24 MAY 73)

TABLATED PRESSURE DATA - 1A98
 ANES 97-707 1A9 OEA + S3 + T9 UPPER MPS NOZZLE

PARAMETRIC DATA
 ALPHAT = -8.0000 ORBINC = .500
 RUDDER = -15.0000 ELEVON = .0000
 RUDFLR = .0000

REFERENCE DATA

SREF = 2.4210 50. FT. XGRP = 20.5300 INCHES
 LREF = 39.8450 INCHES YGRP = .10000 INCHES
 BREF = 39.8450 INCHES ZGRP = .10000 INCHES
 SCALE = .03000 SCALE

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE

MACH (1) = 1.555 BETAT (1) = -0.42

X/LNP	PHI	.250	.500	.750
.000		-.2180	-.2180	-.2180
90.000		-.2290	-.2180	-.2180
135.000		-.2740	-.2270	-.2430
180.000		-.0790	-.1690	-.2400
225.000		-.2590	-.2520	-.2210
270.000		-.2270	-.2240	-.2210

MACH (1) = 1.555 BETAT (2) = -0.360

X/LNP	PHI	.250	.500	.750
.000		-.2170	-.2140	
90.000		-.2190	-.2170	-.2160
135.000		-.2760	-.2280	-.2410
180.000		-.0270	-.0770	-.2370
225.000		-.2490	-.2500	-.2150
270.000		-.2220	-.2170	-.2150

MACH (1) = 1.555 BETAT (3) = -4.310

X/LNP	PHI	.250	.500	.750
.000		-.2230	-.2210	
90.000		-.2220	-.2240	-.2250
135.000		-.2850	-.2340	-.2410
180.000		-.1420	-.0710	-.2400
225.000		-.2490	-.2500	-.2270
270.000		-.2250	-.2270	-.2230

MACH (1) = 1.555 BETAT (4) = -3.180

X/LNP	PHI	.250	.500	.750
.000		-.2430	-.2440	
90.000		-.2490	-.2500	-.2460
135.000		-.2770	-.2670	-.2620
180.000		-.0890	-.0300	-.2600
225.000		-.2710	-.2560	-.2560
270.000		-.2460	-.2470	-.2430

MACH (1) = 1.555 BETAT (5) = 3.940

X/LNP	PHI	.250	.500	.750
.000		-.2190	-.2160	
90.000		-.2260	-.2260	-.2230
135.000		-.2450	-.2500	-.2260
180.000		-.0360	-.0110	-.2370
225.000		-.2750	-.2360	-.2360

DATE 21 SEP 73 REGULATED PRESSURE DATA - 1A98

AMES 97-7:7 1A9 OZA * S3 * T9 UPPER MPS NOZZLE (RB0011)

SECTION 1: 1) MPS NOZZ. DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.940
 X/LNP .250 .500 .750
 PHI
 270.000 -0.2170 -0.2180 -0.2180

MACH (1) = 1.555 BETAT (6) = 6.060
 X/LNP .250 .500 .750
 PHI
 .000 -0.2190 -0.2180
 90.000 -0.2270 -0.2260 -0.2220
 135.000 -0.2580 -0.2600 -0.2250
 180.000 -0.0060 -0.0500 -0.2430
 225.000 -0.2900 -0.2450 -0.2490
 270.000 -0.2260 -0.2230 -0.2170

MACH (1) = 1.555 BETAT (7) = 8.060
 X/LNP .250 .500 .750
 PHI
 .000 -0.2190 -0.2170
 90.000 -0.2320 -0.2280 -0.2230
 135.000 -0.2760 -0.2490 -0.2240
 180.000 .0020 -0.0660 -0.2410
 225.000 -0.2620 -0.2320 -0.2410
 270.000 -0.2210 -0.2210 -0.2120

MACH (2) = 2.000 BETAT (1) = -8.390
 X/LNP .250 .500 .750
 PHI
 .000 -0.1530 -0.1570
 90.000 -0.1750 -0.1580 -0.1540
 135.000 -0.0880 -0.1580 -0.1710
 180.000 .0660 -0.0480 -0.1720
 225.000 -0.2100 -0.1780 -0.1740
 270.000 -0.1650 -0.1590 -0.1540

MACH (2) = 2.000 BETAT (2) = -6.340
 X/LNP .250 .500 .750
 PHI
 .000 -0.1610 -0.1640
 90.000 -0.1740 -0.1680 -0.1620
 135.000 -0.1100 -0.1800 -0.1820
 180.000 .0080 -0.0190 -0.1780
 225.000 -0.2080 -0.1810 -0.1860
 270.000 -0.1720 -0.1690 -0.1620

MACH (2) = 2.000 BETAT (3) = -4.290
 X/LNP .250 .500 .750
 PHI
 .000 -0.1630 -0.1650
 90.000 -0.1720 -0.1690 -0.1610
 135.000 -0.1510 -0.1840 -0.1780
 180.000 .0890 .0320 -0.1740
 225.000 -0.2020 -0.1710 -0.1850

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98
 AMES 97-707 IAS OEA + S3 + T9 UPPER MPS NOZZLE

(R80011)

SECTION : 1) MPS NOZZLE		DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (3) = -4.280	X/LNP	.750
		PHI	.500
		270.000	-.1710
			-.1630
MACH (2) = 2.000	BETAT (4) = -.180	X/LNP	.750
		PHI	.500
		.000	-.1570
		90.000	-.1580
		135.000	-.1650
		180.000	.1580
		225.000	-.1740
		270.000	-.1590
			-.1550
MACH (2) = 2.000	BETAT (5) = 3.930	X/LNP	.750
		PHI	.500
		.000	-.1640
		90.000	-.1730
		135.000	-.1860
		180.000	.1490
		225.000	-.1970
		270.000	-.1710
			-.1650
MACH (2) = 2.000	BETAT (6) = 5.980	X/LNP	.750
		PHI	.500
		.000	-.1660
		90.000	-.1790
		135.000	-.2240
		180.000	.1100
		225.000	-.1220
		270.000	-.1910
			-.1840
			-.1710
MACH (2) = 2.000	BETAT (7) = 8.040	X/LNP	.750
		PHI	.500
		.000	-.1590
		90.000	-.1660
		135.000	-.2180
		180.000	.1350
		225.000	-.1050
		270.000	-.1830
			-.1690
			-.1600

DATE: 81 SEP 75

TABULATED PRESSURE DATA - IAB98
 AMES 97-707 IAS ORA + S3 + T9 UPPER MPS NOZZLE

(RBDJ12) (24 MAY 75)

PARAMETRIC DATA

ALPHAT = -4.1000 ORBINC = .500
 RUDDER = -15.1000 ELEWON = .000
 RUDFLR = .000

REFERENCE DATA

SREF = 2.4210 SQ.F. VMRP = 25.9300 INCHES
 LREF = 39.8499 INCHES VMRP = .0000 INCHES
 BREF = 39.8499 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -6.310	X/LNF	.250	.500	.750
PHI					
		.000	-.2310	-.2300	-.2310
		90.000	-.2330	-.2270	-.2310
		135.000	-.2770	-.2420	-.2490
		180.000	-.1160	.0000	-.2510
		225.000	-.2740	-.2590	-.2360
		270.000	-.2430	-.2360	-.2390
PHI					
		.000	.250	.500	.750
		90.000	-.2260	-.2250	-.2280
		135.000	-.2290	-.2250	-.2280
		180.000	-.2790	-.2390	-.2490
		225.000	-.0670	-.0510	-.2480
		270.000	-.2610	-.2520	-.2310
		270.000	-.2350	-.2320	-.2310
PHI					
		.000	.250	.500	.750
		90.000	-.2330	-.2310	-.2340
		135.000	-.2330	-.2330	-.2340
		180.000	-.2780	-.2420	-.2470
		225.000	-.1650	-.1480	-.2480
		270.000	-.2550	-.2540	-.2360
		270.000	-.2390	-.2350	-.2350
PHI					
		.000	.250	.500	.750
		90.000	-.2430	-.2430	-.2430
		135.000	-.2470	-.2470	-.2430
		180.000	-.2630	-.2560	-.2550
		225.000	-.1220	-.1080	-.2560
		270.000	-.2630	-.2530	-.2520
		270.000	-.2450	-.2440	-.2410
PHI					
		.000	.250	.500	.750
		90.000	-.2270	-.2260	-.2260
		135.000	-.2370	-.2330	-.2340
		180.000	-.2530	-.2510	-.2360
		225.000	-.1080	-.0930	-.2430
		270.000	-.2690	-.2400	-.2380

MACH (1) = 1.555 BETAT (2) = -6.310

MACH (1) = 1.555 BETAT (3) = -4.260

MACH (1) = 1.555 BETAT (4) = -1.170

MACH (1) = 1.555 BETAT (5) = 3.930

AMES 97-707 1A9 ORA + S3 + T9 UPPER MPS NOZZLE

(R50012)

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CF

MACH (1) = 1.555	BETAT (5) = 3.93U	X/LNF	.25U	.50U	.75U
		PHI			
		27U.00U	-.227U	-.227U	-.227U
MACH (1) = 1.555	BETAT (6) = 5.98U	X/LNF	.25U	.50U	.75U
		PHI			
		.00U	-.228U	-.229U	
		9U.00U	-.239U	-.235U	-.235U
		135.00U	-.267U	-.265U	-.238U
		18U.00U	-.145U	-.143U	-.253U
		225.00U	-.288U	-.250U	-.252U
		27U.00U	-.233U	-.229U	-.228U
MACH (1) = 1.555	BETAT (7) = 8.02U	X/LNF	.25U	.50U	.75U
		PHI			
		.00U	-.230U	-.229U	
		9U.00U	-.240U	-.237U	-.235U
		135.00U	-.281U	-.259U	-.238U
		18U.00U	-.133U	-.128U	-.252U
		225.00U	-.288U	-.248U	-.248U
		27U.00U	-.231U	-.228U	-.224U
MACH (2) = 2.00U	BETAT (1) = -8.32U	X/LNF	.25U	.50U	.75U
		PHI			
		.00U	-.165U	-.168U	
		9U.00U	-.178U	-.164U	-.162U
		135.00U	-.140U	-.154U	-.171U
		18U.00U	.012U	.048U	-.184U
		225.00U	-.203U	-.194U	-.175U
		27U.00U	-.172U	-.169U	-.167U
MACH (2) = 2.00U	BETAT (2) = -6.28U	X/LNF	.25U	.50U	.75U
		PHI			
		.00U	-.175U	-.177U	
		9U.00U	-.183U	-.177U	-.171U
		135.00U	-.157U	-.175U	-.185U
		18U.00U	.027U	-.057U	-.187U
		225.00U	-.215U	-.189U	-.193U
		27U.00U	-.181U	-.179U	-.175U
MACH (2) = 2.00U	BETAT (3) = -4.24U	X/LNF	.25U	.50U	.75U
		PHI			
		.00U	-.173U	-.178U	
		9U.00U	-.180U	-.175U	-.171U
		135.00U	-.186U	-.183U	-.182U
		18U.00U	.098U	-.030U	-.184U
		225.00U	-.207U	-.183U	-.194U

TABULATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 32A + S3 + T9 UPPER MPS NOZZLE

DATE 21 SEP 73

(RBOC:2)

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE

MACH (2) = 2.000 BETAT (3) = -4.240

X/LNF .250 .500 .750
PHI 270.000 -0.1780 -0.1780 -0.1720

MACH (2) = 2.000 BETAT (4) = -3.170

X/LNF .250 .500 .750
PHI 0.000 -0.1730 -0.1740

90.000 -0.1760 -0.1740 -0.1740
135.000 -0.2300 -0.1820 -0.1910
180.000 .0890 .0120 -0.1800
225.000 -0.2110 -0.1880 -0.1840
270.000 -0.1760 -0.1760 -0.1700

MACH (2) = 2.000 BETAT (5) = 3.920

X/LNF .250 .500 .750
PHI 0.000 -0.1760 -0.1800
90.000 -0.1850 -0.1820 -0.1790
135.000 -0.2260 -0.1940 -0.1950
180.000 .0510 .0020 -0.1880
225.000 -0.2010 -0.1970 -0.1940
270.000 -0.1860 -0.1820 -0.1740

MACH (2) = 2.000 BETAT (6) = 5.960

X/LNF .250 .500 .750
PHI 0.000 -0.1740 -0.1780
90.000 -0.1840 -0.1800 -0.1780
135.000 -0.2290 -0.1950 -0.1910
180.000 .0470 -0.0190 -0.1940
225.000 -0.1820 -0.2020 -0.2000
270.000 -0.1880 -0.1820 -0.1730

MACH (2) = 2.000 BETAT (7) = 8.000

X/LNF .250 .500 .750
PHI 0.000 -0.1680 -0.1710
90.000 -0.1760 -0.1750 -0.1730
135.000 -0.2100 -0.2020 -0.1790
180.000 .0440 .0150 -0.1890
225.000 -0.1490 -0.1830 -0.1930
270.000 -0.1790 -0.1700 -0.1630

AMES 97-707 IAS OCA + S3 + T9 UPPER MPS NOZZLE (RB0013) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUOFLR = .000

SECTION (1) MPS NOZZLE

MACH (1) = 1.555 BETAT (1) = -6.310

DEPENDENT VARIABLE CP

X/LNP	.250	.500	.750
PHI	.000	-.2460	-.2450
90.000	-.2490	-.2450	-.2470
135.000	-.2940	-.2650	-.2530
180.000	-.1230	-.0550	-.2630
225.000	-.2790	-.2680	-.2520
270.000	-.2570	-.2520	-.2550

MACH (1) = 1.555 BETAT (2) = -6.280

X/LNP	.250	.500	.750
PHI	.000	-.2430	-.2450
90.000	-.2460	-.2 30	-.2450
135.000	-.2780	-.2600	-.2580
180.000	-.0370	-.0640	-.2640
225.000	-.2710	-.2740	-.2490
270.000	-.2510	-.2480	-.2480

MACH (1) = 1.555 BETAT (3) = -4.240

X/LNP	.250	.500	.750
PHI	.000	-.2380	-.2380
90.000	-.2390	-.2410	-.2410
135.000	-.2670	-.2480	-.2470
180.000	-.1110	-.1280	-.2510
225.000	-.2640	-.2510	-.2440
270.000	-.2470	-.2430	-.2430

MACH (1) = 1.555 BETAT (4) = -7.140

X/LNP	.250	.500	.750
PHI	.000	-.2420	-.2430
90.000	-.2470	-.2460	-.2440
135.000	-.2540	-.2590	-.2510
180.000	-.1040	-.1340	-.2550
225.000	-.2610	-.2530	-.2470
270.000	-.2460	-.2430	-.2410

MACH (1) = 1.555 BETAT (5) = 3.940

X/LNP	.250	.500	.750
PHI	.000	-.2350	-.2380
90.000	-.2440	-.2410	-.2410
135.000	-.2590	-.2520	-.2440
180.000	-.1070	-.1040	-.2490
225.000	-.2710	-.2510	-.2410

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DATE 23 SEP 73
 TABULATED PRESSURE DATA - 1A98
 AMES 97-757 1A9 O2A + S3 + T9 UPPER MPS NOZZLE
 (RB0013)

SECTION (1) MPS NOZZLE		DEPENDENT VARIABLE CP	
MACH (1) = 1.555	BETAT (5) = 3.940	X/LNP	.250
		PHI	.750
		270.000	-.2340
			-.2330
			-.2340
MACH (1) = 1.555	BETAT (6) = 5.990	X/LNP	.250
		PHI	.750
		.000	-.2370
		90.000	-.2380
			-.2440
		135.000	-.2460
		180.000	-.2500
		225.000	-.2590
		270.000	-.2670
			-.2670
			-.2490
			-.2560
MACH (1) = 1.555	BETAT (7) = 8.030	X/LNP	.250
		PHI	.750
		.000	-.2480
		90.000	-.2450
			-.2540
		135.000	-.2530
		180.000	-.2720
		225.000	-.2550
		270.000	-.2670
			-.2670
			-.2570
			-.2420
MACH (2) = 2.000	BETAT (1) = -8.300	X/LNP	.250
		PHI	.750
		.000	-.1700
		90.000	-.1720
			-.1740
		135.000	-.1710
		180.000	-.1840
		225.000	-.1640
		270.000	-.1820
			-.1820
			-.1910
			-.1750
			-.1710
MACH (2) = 2.000	BETAT (2) = -6.260	X/LNP	.250
		PHI	.750
		.000	-.1800
		90.000	-.1840
			-.1810
		135.000	-.1860
		180.000	-.1880
		225.000	-.1860
		270.000	-.1960
			-.1960
			-.1880
			-.1830
			-.1880
			-.1830
MACH (2) = 2.000	BETAT (3) = -4.220	X/LNP	.250
		PHI	.750
		.000	-.1830
		90.000	-.1850
			-.1850
		135.000	-.1890
		180.000	-.1980
		225.000	-.1910
		270.000	-.2060
			-.2060
			-.1920
			-.2120
			-.2120
			-.1940
			-.2000

AMES 97-707 1A9 CBA + S3 + T9 UPPER MPS NOZZLE

(R00013)

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.220

X/LNP	.250	.500	.750
PHI			
270.000	-.1950	-.1890	-.1840

MACH (2) = 2.000 BETAT (4) = -.140

X/LNP	.250	.500	.750
PHI			
.000	-.1760	-.1790	
90.000	-.1810	-.1790	-.1790
135.000	-.2230	-.1880	-.1940
180.000	.0360	-.0030	-.1860
225.000	-.2180	-.1930	-.1860
270.000	-.1810	-.1810	-.1750

MACH (2) = 2.000 BETAT (5) = 3.980

X/LNP	.250	.500	.750
PHI			
.000	-.1790	-.1810	
90.000	-.1870	-.1830	-.1810
135.000	-.2200	-.1910	-.1820
180.000	-.0290	.0390	-.1950
225.000	-.2180	-.1960	-.1910
270.000	-.1840	-.1810	-.1760

MACH (2) = 2.000 BETAT (6) = 5.980

X/LNP	.250	.500	.750
PHI			
.000	-.1750	-.1760	
90.000	-.1810	-.1790	-.1790
135.000	-.2090	-.1980	-.1810
180.000	-.0310	.0730	-.1940
225.000	-.2110	-.1850	-.1930
270.000	-.1820	-.1760	-.1720

MACH (2) = 2.000 BETAT (7) = 6.020

X/LNP	.250	.500	.750
PHI			
.000	-.1770	-.1790	
90.000	-.1860	-.1830	-.1830
135.000	-.2020	-.1950	-.1830
180.000	.0160	.0130	-.1980
225.000	-.2010	-.1910	-.2020
270.000	-.1920	-.1830	-.1750

AMES 97-707 1A9 OCA + S3 - T9 UPPER MPS NOZZLE

(RB0014) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.1660 ORBINC = .5000
 RUDDER = -15.0000 ELEVON = .5000
 RUDDFLR = .0000

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE

MACH (1) = 1.555 BETAT (1) = -8.500

X/LNP	.250	.500	.750
PHI			
.000	-.2600	-.2610	
90.000	-.2640	-.2600	-.2630
135.000	-.3060	-.2860	-.2710
180.000	-.1400	-.2180	-.2710
225.000	-.2900	-.2740	-.2640
270.000	-.2680	-.2630	-.2630

MACH (1) = 1.555 BETAT (2) = -6.260

X/LNP	.250	.500	.750
PHI			
.000	-.2570	-.2580	
90.000	-.2590	-.2580	-.2630
135.000	-.2870	-.2810	-.2650
180.000	-.0820	-.1010	-.2750
225.000	-.2830	-.2810	-.2650
270.000	-.2660	-.2620	-.2610

MACH (1) = 1.555 BETAT (3) = -4.220

X/LNP	.250	.500	.750
PHI			
.000	-.2510	-.2510	
90.000	-.2520	-.2510	-.2520
135.000	-.2730	-.2640	-.2550
180.000	-.0690	-.1420	-.2630
225.000	-.2710	-.2690	-.2570
270.000	-.2560	-.2540	-.2530

MACH (1) = 1.555 BETAT (4) = -2.120

X/LNP	.250	.500	.750
PHI			
.000	-.2360	-.2350	
90.000	-.2450	-.2390	-.239
135.000	-.2380	-.2530	-.2400
180.000	-.0820	-.1750	-.2410
225.000	-.2470	-.2480	-.2410
270.000	-.2410	-.2380	-.2360

MACH (1) = 1.555 BETAT (5) = 3.990

X/LNP	.250	.500	.750
PHI			
.000	-.2440	-.2490	
90.000	-.2510	-.2490	-.2510
135.000	-.2700	-.2650	-.2510
180.000	-.1570	-.1620	-.2570
225.000	-.2800	-.2600	-.2490

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 OSA + S3 + T9 UPPER MPS NOZZLE (RBC014)

SECTION (1) MPS NOZZLE		DEPENDENT VARIABLE CP	
MACH (1) = 1.555	BETAT (5) = 3.950	X/LNF	.250 .500 .750
		PHI	270.000 -.2480 -.2450 -.2450
MACH (1) = 1.555	BETAT (6) = 6.000	X/LNF	.250 .500 .750
		PHI	.000 -.2480 -.2510
		90.000	-.2570 -.2540 -.2590
		135.000	-.2800 -.2750 -.2570
		180.000	-.0550 -.0770 -.2630
		225.000	-.2890 -.2720 -.2540
		270.000	-.2500 -.2460 -.2460
MACH (1) = 1.555	BETAT (7) = 8.040	X/LNF	.250 .500 .750
		PHI	.000 -.2570 -.2580
		90.000	-.2690 -.2640 -.2640
		135.000	-.2880 -.2770 -.2650
		180.000	-.0660 -.0750 -.2730
		225.000	-.3050 -.2820 -.2630
		270.000	-.2590 -.2550 -.2540
MACH (2) = 2.000	BETAT (1) = -8.280	X/LNF	.250 .500 .750
		PHI	.000 -.1800 -.1810
		90.000	-.1940 -.1870 -.1860
		135.000	-.1920 -.1830 -.1920
		180.000	-.1240 -.1110 -.2100
		225.000	-.2160 -.1930 -.1860
		270.000	-.1890 -.1860 -.1810
MACH (2) = 2.000	BETAT (2) = -6.250	X/LNF	.250 .500 .750
		PHI	.000 -.1860 -.1860
		90.000	-.1900 -.1880 -.1870
		135.000	-.2120 -.1910 -.1950
		180.000	-.0960 -.0280 -.2010
		225.000	-.2100 -.2000 -.1890
		270.000	-.1910 -.1900 -.1860
MACH (2) = 2.000	BETAT (3) = -4.200	X/LNF	.250 .500 .750
		PHI	.000 -.1880 -.1900
		90.000	-.1920 -.1900 -.1890
		135.000	-.2300 -.2020 -.1970
		180.000	-.1020 -.0630 -.2040
		225.000	-.2140 -.2000 -.2000

DATE 21 SEP 75

INSULATED PRESSURE DATA - 1A98
 AMES 97-707 IAS OEA + S3 + T9 UPPER REAR NOZZLE

(RBCD14)

SECTION (1) MP5 NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.200
 X/LNF .250 .500 .750
 PHI 270.000 -.1950 -.1930 -.1880

MACH (2) = 2.000 BETAT (4) = -.130
 X/LNF .250 .500 .750
 PHI .000 -.1820 -.1840
 90.000 -.1850 -.1830 -.1840
 135.000 -.2050 -.1910 -.1970
 180.000 .0080 -.0420 -.1920
 225.000 -.2080 -.1980 -.1940
 270.000 -.1870 -.1850 -.1810

MACH (2) = 2.000 BETAT (5) = 3.950
 X/LNF .250 .500 .750
 PHI .000 -.1880 -.1920
 90.000 -.1960 -.1930 -.1980
 135.000 .2240 -.2120 -.1970
 180.000 .0290 -.0450 -.2030
 225.000 -.2350 -.2100 -.2020
 270.000 -.1940 -.1910 -.1870

MACH (2) = 2.000 BETAT (6) = 5.990
 X/LNF .250 .500 .750
 PHI .000 -.1820 -.1810
 90.000 -.1880 -.1870 -.1860
 135.000 -.2020 -.1980 -.1870
 180.000 -.0790 -.0760 -.1980
 225.000 -.2240 -.1850 -.1950
 270.000 -.1890 -.1860 -.1790

MACH (2) = 2.000 BETAT (7) = 8.040
 X/LNF .250 .500 .750
 PHI .000 -.1910 -.1930
 90.000 -.2020 -.1990 -.1970
 135.000 -.2150 -.2070 -.1980
 180.000 -.0580 -.0500 -.2100
 225.000 -.2140 -.2120 -.2090
 270.000 -.2060 -.1975 -.1890

AMES 97-787 1A9 OEA + S3 + T9 UPPER WPS NOZZLE

(R80015) (24 MAY 75)

REFERENCE DATA

SREF = 2.4210 98.FT. XMRP = 26.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.0000 ORBKIN = .9500
 RUDDER = -15.0000 ELEVON = .0000
 RUDFLR = .0000

SECTION (1) WPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -6.320

X/LNP	.250	.500	.750
PHI			
.000	-.2600	-.2610	
90.000	-.2600	-.2600	-.2660
135.000	-.2930	-.2780	-.2700
180.000	-.1900	-.2160	-.2740
225.000	-.2670	-.2720	-.2650
270.000	-.2690	-.2690	-.2630

MACH (1) = 1.555 BETAT (2) = -6.260

X/LNP	.250	.500	.750
PHI			
.000	-.2580	-.2600	
90.000	-.2620	-.2610	-.2620
135.000	-.2910	-.2780	-.2670
180.000	-.1160	-.1410	-.2760
225.000	-.2640	-.2610	-.2660
270.000	-.2660	-.2630	-.2620

MACH (1) = 1.555 BETAT (3) = -4.230

X/LNP	.250	.500	.750
PHI			
.000	-.2490	-.2320	
90.000	-.2550	-.2520	-.2510
135.000	-.2720	-.2710	-.2570
180.000	-.1790	-.1370	-.2660
225.000	-.2740	-.2680	-.2590
270.000	-.2580	-.2560	-.2540

MACH (1) = 1.555 BETAT (4) = -.120

X/LNP	.250	.500	.750
PHI			
.000	-.2390	-.2390	
90.000	-.2440	-.2420	-.2410
135.000	-.2420	-.2550	-.2440
180.000	-.1690	-.1980	-.2430
225.000	-.2480	-.2570	-.2420
270.000	-.2450	-.2420	-.2400

MACH (1) = 1.555 BETAT (5) = 3.970

X/LNP	.250	.500	.750
PHI			
.000	-.2440	-.2430	
90.000	-.2500	-.2480	-.2490
135.000	-.2650	-.2650	-.2510
180.000	-.1680	-.1450	-.2540
225.000	-.2710	-.2590	-.2460

AMES 97-707 1A9 O2A + S3 + T9 UPPER MPS NOZZLE

(RB-3015)

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.970

X/LNP	.250	.500	.750
PHI			
275.000	-.2450	-.2420	-.2420

MACH (1) = 1.555 BETAT (6) = 6.050

X/LNP	.250	.500	.750
PHI			
90.000	-.2520	-.2540	
90.000	-.2600	-.2580	-.2580
135.000	-.2810	-.2730	-.2630
180.000	-.1030	-.1190	-.2670
225.000	-.2910	-.2790	-.2560
270.000	-.2540	-.2520	-.2500

MACH (1) = 1.555 BETAT (7) = 8.080

X/LNP	.250	.500	.750
PHI			
90.000	-.2620	-.2630	
90.000	-.2740	-.2710	-.2690
135.000	-.2880	-.2770	-.2710
180.000	-.1330	-.1030	-.2780
225.000	-.3000	-.2770	-.2720
270.000	-.2640	-.2620	-.2610

MACH (2) = 2.000 BETAT (1) = -6.260

X/LNP	.250	.500	.750
PHI			
90.000	-.1870	-.1880	
90.000	-.1940	-.1910	-.1910
135.000	-.2050	-.1910	-.1930
180.000	-.1040	-.0310	-.2010
225.000	-.2160	-.2030	-.1910
270.000	-.1910	-.1900	-.1870

MACH (2) = 2.000 BETAT (2) = -4.210

X/LNP	.250	.500	.750
PHI			
90.000	-.1880	-.2150	
90.000	-.1930	-.2160	-.2070
135.000	-.2220	-.2200	-.2110
180.000	-.0400	-.0810	-.2200
225.000	-.2120	-.2170	-.2140
270.000	-.2100	-.2090	-.2030

MACH (2) = 2.000 BETAT (3) = -1.130

X/LNP	.250	.500	.750
PHI			
90.000	-.1840	-.1850	
90.000	-.1870	-.1860	-.1870
135.000	-.2010	-.1890	-.1960
180.000	-.1450	-.0690	-.1930
225.000	-.2100	-.2030	-.1890

AMES 97-707 1A9-05A + S3 + T9 UPPER MPS NOZZLE

(R80015)

SECTION (3) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -.130

X/LNF	.250	.500	.750
PHI			
270.000	-.1680	-.1670	-.1650

MACH (2) = 2.000 BETAT (4) = 3.970

X/LNF	.250	.500	.750
PHI			
.000	-.1870	-.1690	
90.000	-.1920	-.1920	-.1940
135.000	-.2140	-.2050	-.1940
180.000	-.0475	-.1040	-.2030
225.000	-.2280	-.2120	-.2020
270.000	-.1950	-.1920	-.1670

MACH (2) = 2.000 BETAT (5) = 6.020

X/LNF	.250	.500	.750
PHI			
.000	-.1620	-.1690	
90.000	-.1930	-.1730	-.1730
135.000	-.2030	-.1850	-.1750
180.000	-.1190	-.0460	-.1620
225.000	-.2110	-.1670	-.1620
270.000	-.1770	-.1730	-.1670

MACH (2) = 2.000 BETAT (6) = 8.070

X/LNF	.250	.500	.750
PHI			
.000	-.1680	-.1680	
90.000	-.1970	-.1940	-.1930
135.000	-.2070	-.2010	-.1940
180.000	-.0390	-.0240	-.2040
225.000	-.2170	-.1920	-.2000
270.000	-.2110	-.1930	-.1830

(RBCD16) (24 MAY 73)

DATE 21 SEP 73 TABULATED PRESSURE DATA - IA9B
 AMES 37-707 IA9 OZA + S3 + T9 UPPER NPS NOZZLE

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

REFERENC. DATA

SREF = 2.4210 SQ. FT. XMRP = 26.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

DEPENDENT VARIABLE CP

SECTION (1) NPS NOZZLE

MACH (1) = 1.555 BETAT (1) = -8.350

X/LNP	.250	.500	.750
PHI	.000	-.2630	-.2640
90.000	-.2714	-.2680	-.2680
135.000	-.2890	-.2700	-.2710
180.000	-.2160	-.2410	-.2740
225.000	-.2880	-.2690	-.2670
270.000	-.2720	-.2670	-.2660

MACH (1) = 1.555 BETAT (2) = -6.290

X/LNF	.250	.500	.750
PHI	.000	-.2560	-.2590
90.000	-.2630	-.2610	-.2590
135.000	-.2760	-.2660	-.2630
180.000	-.1330	-.1650	-.2720
225.000	-.2760	-.2710	-.1630
270.000	-.2640	-.2610	-.2610

MACH (1) = 1.555 BETAT (3) = -4.240

X/LNF	.250	.500	.750
PHI	.000	-.2480	-.2520
90.000	-.2540	-.2510	-.2510
135.000	-.2640	-.2680	-.2560
180.000	-.1770	-.1470	-.2640
225.000	-.2690	-.2660	-.2580
270.000	-.2560	-.2540	-.2530

MACH (1) = 1.555 BETAT (4) = -.110

X/LNF	.250	.500	.750
PHI	.000	-.2360	-.2370
90.000	-.2440	-.2410	-.2390
135.000	-.2420	-.2520	-.2420
180.000	-.1100	-.2190	-.2420
225.000	-.2460	-.2440	-.2410
270.000	-.2450	-.2410	-.2360

MACH (1) = 1.555 BETAT (5) = 4.000

X/LNF	.250	.500	.750
PHI	.000	-.2430	-.2450
90.000	-.2530	-.2510	-.2510
135.000	-.2610	-.2670	-.2520
180.000	-.1690	-.1690	-.2560
225.000	-.2720	-.2620	-.2490

DATE 21 SEP 73

TABLATED PRESSURE DATA - 1A98

(RBCD16)

AVES 97-707 1A9 OEA + S9 + T9 UPPER MPS NOZZLE

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE

MACH (1) = 1.555 BETAT (5) = 4.000 X/LNP .250 .500 .750
 PHI 270.000 -.2500 -.2450 -.2440

MACH (1) = 1.555 BETAT (6) = 6.060 X/LNP .250 .500 .750
 PHI .000 -.2540 -.2570
 90.000 -.2640 -.2610 -.2620
 135.000 -.2800 -.2710 -.2620
 180.000 -.1550 -.1710 -.2695
 225.000 -.2920 -.2630 -.2620
 270.000 -.2590 -.2570 -.2560

MACH (1) = 1.555 BETAT (7) = 8.120 X/LNP .250 .500 .750
 PHI .000 -.2670 -.2680
 90.000 -.2770 -.2720 -.2710
 135.000 -.2910 -.2760 -.2720
 180.000 -.1950 -.1460 -.2790
 225.000 -.3070 -.2690 -.2720
 270.000 -.2680 -.2690 -.2670

MACH (2) = 2.000 BETAT (1) = -6.340 X/LNP .250 .500 .750
 PHI .000 -.2170 -.2220
 90.000 -.2320 .0000 .0000
 135.000 -.2390 .0000 .0000
 180.000 -.1950 .0000 .0000
 225.000 -.2400 .0000 .0000
 270.000 -.2240 .0000 .0000

MACH (2) = 2.000 BETAT (2) = -6.270 X/LNP .250 .500 .750
 PHI .000 -.1870 -.1870
 90.000 -.1980 -.1910 -.1920
 135.000 -.2050 -.1830 -.1940
 180.000 -.1930 -.1630 -.2020
 225.000 -.2050 -.2030 -.1920
 270.000 -.1920 -.1910 -.1880

MACH (2) = 2.000 BETAT (3) = -4.220 X/LNP .250 .500 .750
 PHI .000 -.1890 -.1910
 90.000 -.1970 -.1920 -.1920
 135.000 -.2040 -.2010 -.1970
 180.000 -.0610 -.0790 -.2030
 225.000 -.2080 -.2060 -.1970

(RBC016)

DATE 21 SEP 73

ABULATED PRESSURE DATA - 1A98

AMES 97-717 1A9 OCA + S3 + T9 UPPER MPS NOZZLE

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE

MACH (2) = 2.000 BETAT (3) = -4.220

PHI .000 .250 .500 .750

MACH (2) = 2.000 BETAT (4) = -4.120

PHI .000 .250 .500 .750

90.000 -.1880 -.1890
135.000 -.1910 -.1920
180.000 -.1940 -.1950
225.000 -.1970 -.1980
270.000 -.1990 -.2000

MACH (2) = 2.000 BETAT (5) = 3.990

PHI .000 .250 .500 .750

90.000 -.1930 -.1940
135.000 -.1960 -.1970
180.000 -.1990 -.2000
225.000 -.2020 -.2030
270.000 -.2050 -.2060

MACH (2) = 2.000 BETAT (6) = 6.050

PHI .000 .250 .500 .750

90.000 -.1830 -.1840
135.000 -.1860 -.1870
180.000 -.1890 -.1900
225.000 -.1920 -.1930
270.000 -.1950 -.1960

MACH (2) = 2.000 BETAT (7) = 6.110

PHI .000 .250 .500 .750

90.000 -.1890 -.1890
135.000 -.1920 -.1930
180.000 -.1950 -.1960
225.000 -.1980 -.1990
270.000 -.2010 -.2020

DATE 21 SEP 73
 AMES 97-707 1AS OCA + S3 + T9 UPPER MPS NOZZLE
 TABULATED PRESSURE DATA - 1A96

(RBO017) (24 MAY 73)

PARAMETRIC DATA

ALPHAT = -8.0000 ORBINC = .5000
 RUDDER = -10.0000 ELEVON = .0000
 RUDFLR = .0000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

DEPENDENT VARIABLE CP

MACH (1) = 1.955	BETAT (1) = -6.410	X/LNP	.250	.500	.750
SECTION (1) MPS NOZZLE					
PHI					
		.000	-.2090	-.2040	
		90.000	-.2070	-.2030	-.2120
		135.000	-.2660	-.2150	-.2240
		180.000	-.0810	.0160	-.2240
		225.000	-.2460	-.2330	-.2080
		270.000	-.2150	-.2100	-.2080
SECTION (2) MPS NOZZLE					
PHI					
		.000	-.2090	-.2020	
		90.000	-.2160	-.2030	-.2130
		135.000	-.2630	-.2160	-.2290
		180.000	-.0290	-.0320	-.2240
		225.000	-.2360	-.2350	-.2160
		270.000	-.2100	-.2080	-.2090
SECTION (3) MPS NOZZLE					
PHI					
		.000	-.2190	-.2140	
		90.000	-.2140	-.2150	-.2160
		135.000	-.2740	-.2230	-.2290
		180.000	-.0480	-.0410	-.2320
		225.000	-.2430	-.2430	-.2250
		270.000	-.2210	-.2180	-.2160
SECTION (4) MPS NOZZLE					
PHI					
		.000	-.2210	-.2240	
		90.000	-.2280	-.2280	-.2260
		135.000	-.2950	-.2370	-.2390
		180.000	.0850	-.0370	-.2380
		225.000	-.2460	-.2340	-.2340
		270.000	-.2280	-.2240	-.2240
SECTION (5) MPS NOZZLE					
PHI					
		.000	-.2180	-.2160	
		90.000	-.2190	-.2170	-.2150
		135.000	-.2350	-.2410	-.2190
		180.000	-.0390	-.0440	-.2270
		225.000	-.2590	-.2220	-.2250

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B (RBC017)

AMES 97-707 1A9 OCA + S3 + T9 UPPER MFS NOZZLE

DEPENDENT VARIABLE CP

SECTION (1) MFS NOZZ--

MACH (1) = 1.555 BETAT (5) = 3.930 X/LNP .250 .500 .750
 PHI 270.000 -.2080 -.2080 -.2080

MACH (1) = 1.555 BETAT (6) = 5.980 X/LNP .250 .500 .750
 PHI .000 -.2080 -.2080
 90.000 -.2120 -.2090 -.2070
 135.000 -.2350 -.2430 -.2080
 180.000 -.0210 .0480 -.2250
 225.000 -.2690 -.2250 -.2250
 270.000 -.2040 -.2040 -.2040

MACH (1) = 1.555 BETAT (7) = 8.090 X/LNP .250 .500 .750
 PHI .000 -.2080 -.2080
 90.000 -.2170 -.2120 -.2090
 135.000 -.2570 -.2340 -.2100
 180.000 -.0140 .0090 -.2250
 225.000 -.2740 -.2190 -.2260
 270.000 -.2030 -.2030 -.1980

MACH (2) = 2.000 BETAT (1) = -8.380 X/LNP .250 .500 .750
 PHI .000 -.1480 -.1510
 90.000 -.1610 -.1510 -.1430
 135.000 -.0960 -.1610 .1650
 180.000 .0670 .0240 .1640
 225.000 -.2140 -.1780 .1630
 270.000 -.1580 -.1530 .1490

MACH (2) = 2.000 BETAT (2) = -6.330 X/LNP .250 .500 .750
 PHI .000 -.1560 -.1640
 90.000 -.1670 -.1620 .1550
 135.000 -.1080 -.1780 .1740
 180.000 .0910 .0090 .1700
 225.000 -.2030 .1760 .1840
 270.000 -.1680 .1640 .1570

MACH (2) = 2.000 BETAT (3) = -4.280 X/LNP .250 .500 .750
 PHI .000 -.1990 .1570
 90.000 -.1640 .1630 .1540
 135.000 .1590 .1720 .1680
 180.000 .1960 .0350 .1660
 225.000 .1960 .1640 .1760

DATE 21 SEP 73

TABLATED PRESSURE DATA - 1A98
AMES 97-707 1A9 OEA + S3 + T3 UPPER MPS NOZZLE

(R00017)

SECTION (1) MPS NOZZLE
DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.280

X/LNP	.250	.500	.750
PHI			
270.000	-.1630	-.1630	-.1550

MACH (2) = 2.000 BETAT (4) = -.170

X/LNP	.250	.500	.750
PHI			
.000	-.1560	-.1560	
90.000	-.1600	-.1580	-.1580
135.000	-.2240	-.1660	-.1780
180.000	.1620	.0520	-.1640
225.000	-.2020	-.1730	-.1720
270.000	-.1610	-.1590	-.1540

MACH (2) = 2.000 BETAT (5) = 3.930

X/LNF	.250	.500	.750
PHI			
.000	-.1590	-.1620	
90.000	-.1710	-.1690	-.1630
135.000	-.2180	-.1820	-.1810
180.000	.1340	.0910	-.1720
225.000	-.1780	-.1880	-.1840
270.000	-.1720	-.1660	-.1580

MACH (2) = 2.000 BETAT (6) = 5.980

X/LNF	.250	.500	.750
PHI			
.000	-.1610	-.1640	
90.000	-.1740	-.1690	-.1660
135.000	-.2210	-.1910	-.1820
180.000	.1050	-.0150	-.1740
225.000	-.1340	-.2030	-.1920
270.000	-.1800	-.1720	-.1640

MACH (2) = 2.000 BETAT (7) = 8.040

X/LNF	.250	.500	.750
PHI			
.000	-.1530	-.1590	
90.000	-.1640	-.1610	-.1590
135.000	-.2140	-.1840	-.1720
180.000	.1280	.0260	-.1760
225.000	-.1170	-.1820	-.1880
270.000	-.1720	-.1640	-.1560

(RBD018) (24 MAY 73)

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
 RUDDER = -10.000 ELEVON = .000
 RUDDFLR = .000

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B
 AMES 97-707 1A9 OEA + S3 + T9 UPPER MPS NOZZLE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE	X/LNP	.250	.500	.750
MACH (1) = 1.555 BETAT (1) = -6.340	PHI			
	.000	-.2260	-.2260	
	90.000	-.2250	-.2240	-.2270
	135.000	-.2740	-.2390	-.2400
	180.000	-.1210	-.0140	-.2470
	225.000	-.2690	-.2520	-.2330
270.000	-.2350	-.2330	-.2310	
MACH (1) = 1.555 BETAT (2) = -6.300	PHI			
	.000	-.2240	-.2240	
	90.000	-.2250	-.2230	-.2250
	135.000	-.2750	-.2360	-.2420
	180.000	-.0720	-.0570	-.2430
	225.000	-.2570	-.2460	-.2280
270.000	-.2340	-.2290	-.2280	
MACH (1) = 1.555 BETAT (3) = -4.250	PHI			
	.000	-.2280	-.2280	
	90.000	-.2280	-.2280	-.2290
	135.000	-.2730	-.2370	-.2390
	180.000	-.0670	-.0840	-.2430
	225.000	-.2490	-.2460	-.2330
270.000	-.2350	-.2320	-.2300	
MACH (1) = 1.555 BETAT (4) = -1.160	PHI			
	.000	-.2330	-.2340	
	90.000	-.2360	-.2350	-.2330
	135.000	-.2490	-.2450	-.2430
	180.000	-.0490	-.0820	-.2450
	225.000	-.2520	-.2440	-.2380
270.000	-.2350	-.2340	-.2320	
MACH (1) = 1.555 BETAT (5) = 3.930	PHI			
	.000	-.2240	-.2220	
	90.000	-.2320	-.2290	-.2300
	135.000	-.2450	-.2450	-.2310
	180.000	-.0840	-.0820	-.2390
	225.000	-.2610	-.2610	-.2330
270.000	-.2610	-.2330	-.2310	

(R80016)

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1A98
 AMES 97-707 IAS OCA + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE		DEPENDENT VARIABLE CP	
MACH (1) = 1.555	BETAT (5) = 3.930	X/LNP .250	.500 .750
		PHI	
		270.000	-.2210 -.2230 -.2220
MACH (1) = 1.555	BETAT (6) = 5.980	X/LNP .250	.500 .750
		PHI	
		.000	-.2240 -.2230
		90.000	-.2340 -.2290 -.2310
		135.000	-.2560 -.2610 -.2310
		180.000	-.0620 .0280 -.2460
		225.000	-.2790 -.2430 -.2430
		270.000	-.2240 -.2220 -.2210
MACH (1) = 1.555	BETAT (7) = 8.020	X/LNP .250	.500 .750
		PHI	
		.000	-.2210 -.2210
		90.000	-.2300 -.2270 -.2280
		135.000	-.2630 -.2540 -.2290
		180.000	-.0320 .1610 -.2470
		225.000	-.2780 -.2480 -.2340
		270.000	-.2210 -.2180 -.2150
MACH (2) = 2.000	BETAT (1) = -8.320	X/LNP .250	.500 .750
		PHI	
		.000	-.1570 -.1610
		90.000	-.1630 -.1570 -.1550
		135.000	-.1410 -.1540 -.1640
		180.000	.0120 .0600 -.1770
		225.000	-.1940 -.1670 -.1640
		270.000	-.1650 -.1620 -.1590
MACH (2) = 2.000	BETAT (2) = -6.270	X/LNP .250	.500 .750
		PHI	
		.000	-.1670 -.1720
		90.000	-.1780 -.1720 -.1660
		135.000	-.1560 -.1730 -.1770
		180.000	.0310 -.0430 -.1840
		225.000	-.2090 -.1820 -.1880
		270.000	-.1770 -.1740 -.1690
MACH (2) = 2.000	BETAT (3) = -4.230	X/LNP .250	.500 .750
		PHI	
		.000	-.1680 -.1720
		90.000	-.1770 -.1730 -.1700
		135.000	-.1860 -.1820 -.1780
		180.000	.1010 -.0210 -.1830
		225.000	-.2050 -.1840 -.1870

(RBC016)

DATE: 21 SEP 73
 TABULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 OCA + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE	DEPENDENT VARIABLE CP	
MACH (2) = 2.000 BETAT (3) = -4.230	X/LNF	.250 .500 .750
	PHI	270.000 -.1750 -.1750 -.1690
MACH (2) = 2.000 BETAT (4) = -3.160	X/LNF	.250 .500 .750
	PHI	90.000 -.1700 -.1730
		90.000 -.1750 -.1720
		135.000 -.2270 -.1820 -.1920
		180.000 .0910 .0220 -.1780
		225.000 -.2070 -.1870 -.1820
		270.000 -.1750 -.1730 -.1690
MACH (2) = 2.000 BETAT (5) = 3.920	X/LNF	.250 .500 .750
	PHI	90.000 -.1720 -.1760
		90.000 -.1810 -.1790 -.1760
		135.000 -.2230 -.1910 -.1920
		180.000 .0510 .0120 -.1880
		225.000 -.2030 -.1990 -.1910
		270.000 -.1820 -.1790 -.1710
MACH (2) = 2.000 BETAT (6) = 5.960	X/LNF	.250 .500 .750
	PHI	90.000 -.1690 -.1730
		90.000 -.1770 -.1740 -.1740
		135.000 -.2250 -.1930 -.1840
		180.000 .0360 .0190 -.1880
		225.000 -.1830 -.1920 -.1910
		270.000 -.1830 -.1740 -.1680
MACH (2) = 2.000 BETAT (7) = 6.010	X/LNF	.250 .500 .750
	PHI	90.000 -.1620 -.1670
		90.000 -.1720 -.1690 -.1680
		135.000 -.2120 -.1990 -.1720
		180.000 .0360 .0310 -.1860
		225.000 -.1560 -.1780 -.1870
		270.000 -.1740 -.1640 -.1590

REFERENCE DATA
 SREF = 2.4210 SQ.FT. XMRP = 26.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA
 ALPHAT = .000 ORBINC = .0000
 RUDDER = -10.000 ELEVON = .0000
 RUDFLR = .000

SECTION (1) MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -0.320

PHI	X/LNP	.250	.500	.750
.000		-.2400	-.2400	-.2420
90.000		-.2430	-.2390	-.2420
135.000		-.2080	-.2630	-.2500
180.000		-.1140	-.1120	-.2570
225.000		-.2720	-.2580	-.2450
270.000		-.2510	-.2470	-.2440

MACH (1) = 1.555 BETAT (2) = -0.270

PHI	X/LNP	.250	.500	.750
.000		-.2320	-.2330	-.2330
90.000		-.2350	-.2320	-.2330
135.000		-.2670	-.2500	-.2430
180.000		-.0430	-.0680	-.2520
225.000		-.2570	-.2560	-.2390
270.000		-.2400	-.2370	-.2370

MACH (1) = 1.555 BETAT (3) = -0.240

PHI	X/LNP	.250	.500	.750
.000		-.2370	-.2360	-.2390
90.000		-.2370	-.2370	-.2390
135.000		-.2640	-.2460	-.2450
180.000		-.1130	-.1390	-.2460
225.000		-.2600	-.2450	-.2410
270.000		-.2430	-.2400	-.2390

MACH (1) = 1.555 BETAT (4) = -.140

PHI	X/LNP	.250	.500	.750
.000		-.2320	-.2320	-.2330
90.000		-.2360	-.2360	-.2330
135.000		-.2400	-.2500	-.2380
180.000		-.0510	-.1300	-.2430
225.000		-.2480	-.2450	-.2360
270.000		-.2360	-.2340	-.2320

MACH (1) = 1.555 BETAT (5) = 3.990

PHI	X/LNF	.250	.500	.750
.000		-.2260	-.2280	-.2280
90.000		-.2370	-.2330	-.2330
135.000		-.2520	-.2400	-.2340
180.000		-.0890	-.1250	-.2380
225.000		-.2590	-.2430	-.2310

(RBC019)

DATE 23 SEP 73
 TABULATED PRESSURE DATA - 1A98
 AMES 97-757 1A9 ORA + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE		DEPENDENT VARIABLE CP	
MACH (1) = 1.555	BETAT (5) = 3.950	X/LNP	.250 .500 .750
		PHI	
		270.000	-.2280 -.2260 -.2250
MACH (1) = 1.555	BETAT (6) = 5.990	X/LNP	.250 .500 .750
		PHI	
		.000	-.2280 -.2280
		90.000	-.2370 -.2340 -.2360
		135.000	-.2520 -.2590 -.2390
		180.000	-.0570 -.0250 -.2490
		225.000	-.2730 -.2510 -.2380
		270.000	-.2300 -.2280 -.2270
MACH (1) = 1.555	BETAT (7) = 8.040	X/LNP	.250 .500 .750
		PHI	
		.000	-.2370 -.2380
		90.000	-.2440 -.2410 -.2420
		135.000	-.2690 -.2580 -.2450
		180.000	-.0470 -.0180 -.2550
		225.000	-.2850 -.2580 -.2440
		270.000	-.2370 -.2340 -.2320
MACH (2) = 2.000	BETAT (1) = -6.300	X/LNP	.250 .500 .750
		PHI	
		.000	-.1690 -.1710
		90.000	-.1720 -.1690 -.1730
		135.000	-.1870 -.1830 -.1770
		180.000	-.0730 .0550 -.1870
		225.000	-.1880 -.1850 -.1740
		270.000	-.1770 -.1740 -.1710
MACH (2) = 2.000	BETAT (2) = -6.260	X/LNP	.250 .500 .750
		PHI	
		.000	-.1760 -.1790
		90.000	-.1810 -.1760 -.1760
		135.000	-.1950 -.1840 -.1830
		180.000	-.0400 .0400 -.1920
		225.000	-.2060 -.1990 -.1810
		270.000	-.1840 -.1810 -.1780
MACH (2) = 2.000	BETAT (3) = -4.220	X/LNP	.250 .500 .750
		PHI	
		.000	-.1800 -.1820
		90.000	-.1840 -.1810 -.1810
		135.000	-.2030 -.1930 -.1880
		180.000	.0310 .0360 -.1950
		225.000	-.2080 -.1890 -.1940

AMES 97-707 1A9 ORA + S3 + T9 UPPER MPS NOZZLE

(R00019)

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.228

X/LNP	.250	.500	.750
PHI			
270.000	-.1040	-.1040	-.1000

MACH (2) = 2.000 BETAT (4) = -3.140

X/LNP	.250	.500	.750
PHI			
.000	-.1770	-.1790	
90.000	-.1810	-.1800	-.1790
135.000	-.2200	-.1680	-.1950
180.000	-.0960	-.0040	-.1870
225.000	-.2160	-.1930	-.1840
270.000	-.1010	-.1790	-.1760

MACH (2) = 2.000 BETAT (5) = 3.930

X/LNP	.250	.500	.750
PHI			
.000	-.1780	-.1600	
90.000	-.1840	-.1620	-.1800
135.000	-.2180	-.1670	-.1940
180.000	-.0120	.0440	-.1940
225.000	-.2190	-.1940	-.1690
270.000	-.1830	-.1820	-.1750

MACH (2) = 2.000 BETAT (6) = 5.980

X/LNP	.250	.500	.750
PHI			
.000	-.1720	-.1730	
90.000	-.1820	-.1780	-.1770
135.000	-.2050	-.1980	-.1790
180.000	-.0300	.0750	-.1930
225.000	-.2130	-.1810	-.1690
270.000	-.1820	-.1750	-.1720

MACH (2) = 2.000 BETAT (7) = 6.020

X/LNP	.250	.500	.750
PHI			
.000	-.1770	-.1790	
90.000	-.1840	-.1830	-.1830
135.000	-.1970	-.2120	-.1840
180.000	.0120	.0660	-.1990
225.000	-.2120	-.1910	-.1980
270.000	-.1920	-.1820	-.1750

DATE 21 SEP 73

TABLATED PRESSURE DATA - IA98
 ANES 97-707 IA9 QEA + S3 + T9 UPPER MPS NOZZLE

(R00020) (24 MAY 73)

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

REFERENCE DATA

SREF = 2.410 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.4390 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

SECTION (1) MPS NOZZLE

MACH (1) = 1.555 BETAT (1) = -6.300

DEPENDENT VARIABLE (P)	X/LNP	.250	.500	.750
PHI	.000	-.2510	-.2530	
	90.000	-.2560	-.2510	-.2540
	135.000	-.2970	-.2800	-.2620
	180.000	-.1130	-.2330	-.2610
	225.000	-.2770	-.2630	-.2570
	270.000	-.2590	-.2560	-.2540

MACH (1) = 1.555 BETAT (2) = -6.270

DEPENDENT VARIABLE (P)	X/LNP	.250	.500	.750
PHI	.000	-.2490	-.2470	
	90.000	-.2480	-.2460	-.2470
	135.000	-.2770	-.2690	-.2520
	180.000	-.0820	-.1320	-.2620
	225.000	-.2670	-.2650	-.2590
	270.000	-.2520	-.2490	-.2470

MACH (1) = 1.555 BETAT (3) = -4.220

DEPENDENT VARIABLE (P)	X/LNP	.250	.500	.750
PHI	.000	-.2450	-.2460	
	90.000	-.2480	-.2460	-.2450
	135.000	-.2680	-.2670	-.2490
	180.000	-.0680	-.1480	-.2570
	225.000	-.2650	-.2630	-.2500
	270.000	-.2510	-.2490	-.2470

MACH (1) = 1.555 BETAT (4) = -.130

DEPENDENT VARIABLE (P)	X/LNP	.250	.500	.750
PHI	.000	-.2280	-.2280	
	90.000	-.2310	-.2300	-.2290
	135.000	-.2290	-.2420	-.2320
	180.000	-.0850	-.1800	-.2310
	225.000	-.2370	-.2360	-.2300
	270.000	-.2320	-.2290	-.2280

MACH (1) = 1.555 BETAT (5) = 3.960

DEPENDENT VARIABLE (P)	X/LNP	.250	.500	.750
PHI	.000	-.2370	-.2380	
	90.000	-.2430	-.2410	-.2420
	135.000	-.2590	-.2530	-.2420
	180.000	-.0560	-.1740	-.2450
	225.000	-.2670	-.2520	-.2410

AMES 97-707 1A9 02A + S3 + T9 UPPER MPS NOZZLE

(RBC020)

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.980 X/LNP .250 .500 .750
PHI
270.000 -.2400 -.2360 -.2360

MACH (1) = 1.555 BETAT (6) = 6.010 X/LNP .250 .500 .750
PHI
.000 -.2480 -.2428
90.000 -.2460 -.2440 -.2460
135.000 -.2680 -.2690 -.2470
180.000 -.0630 -.1050 -.2530
225.000 -.2770 -.2630 -.2430
270.000 -.2410 -.2390 -.2370

MACH (1) = 1.555 BETAT (7) = 9.080 X/LNP .250 .500 .750
PHI
.000 -.2540 -.2540
90.000 -.2610 -.2570 -.2590
135.000 -.2820 -.2710 -.2600
180.000 -.0730 -.1630 -.2680
225.000 -.2980 -.2770 -.2570
270.000 -.2550 -.2500 -.2490

MACH (2) = 2.000 BETAT (1) = -0.280 X/LNP .250 .500 .750
PHI
.000 -.1800 -.1810
90.000 -.1928 -.1850 -.1840
135.000 -.1928 -.1830 -.1890
180.000 -.1230 -.1820 -.1970
225.000 -.2030 -.1930 -.1860
270.000 -.1870 -.1840 -.1820

MACH (2) = 2.000 BETAT (2) = -0.240 X/LNP .250 .500 .750
PHI
.000 -.1810 -.1830
90.000 -.1870 -.1840 -.1830
135.000 -.2080 -.1870 -.1930
180.000 -.1970 -.0570 -.1960
225.000 -.2140 -.1950 -.1870
270.000 -.1890 -.1870 -.1830

MACH (2) = 2.000 BETAT (3) = -4.230 X/LNP .250 .500 .750
PHI
.000 -.1840 -.1860
90.000 -.1880 -.1860 -.1860
135.000 -.2250 -.1990 -.1940
180.000 -.1410 -.1810 -.2010
225.000 -.2190 -.1960 -.1960

(R00020)

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 OEA + S3 + 19 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE		DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (3) = -4.200	X/LNF	.250 .500 .750
		PHI	270.000 -.1910 -.1890 -.1840
MACH (2) = 2.000	BETAT (4) = -.130	X/LNF	.250 .500 .750
		PHI	.000 -.1810 -.1820
			90.000 -.1870 -.1840 -.1820
			135.000 -.2010 -.1880 -.1960
			180.000 .0000 -.0470 -.1940
			225.000 -.2080 -.1960 -.1850
			270.000 -.1840 -.1820 -.1790
MACH (2) = 2.000	BETAT (5) = 3.950	X/LNF	.250 .500 .750
		PHI	.000 -.1870 -.1880
			90.000 -.1930 -.1910 -.1910
			135.000 -.2190 -.1990 -.1950
			180.000 -.0330 -.0490 -.2010
			225.000 -.2330 -.2310 -.1970
			270.000 -.1910 -.1890 -.1850
MACH (2) = 2.000	BETAT (6) = 5.990	X/LNF	.250 .500 .750
		PHI	.000 -.1810 -.1830
			90.000 -.1870 -.1860 -.1870
			135.000 1.2020 -.1990 -.1870
			180.000 -.0820 -.0130 -.1990
			225.000 -.2270 -.1840 -.1970
			270.000 -.1890 -.1870 -.1810
MACH (2) = 2.000	BETAT (7) = 6.040	X/LNF	.250 .500 .750
		PHI	.000 -.1930 -.1930
			90.000 -.1980 -.1960 -.1970
			135.000 -.2110 -.2110 -.2100
			180.000 -.0250 .0010 -.2100
			225.000 -.2150 -.1960 -.2050
			270.000 -.2100 -.1950 -.1890

REFERENCE DATA

STEP = 2.4210 90.FT. XGRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YGRP = .0000 INCHES
 BREF = 39.8490 INCHES ZGRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -6.330	X/LNP	.250	.500	.750
SECTION: (1) MPS NOZZLE					
PHI					
		.000	-.2550	-.2560	
		90.000	-.2600	-.2570	-.2590
		135.000	-.2680	-.2748	-.2650
		180.000	-.1710	-.2410	-.2679
		225.000	-.2790	-.2640	-.2620
		270.000	-.2640	-.2600	-.2590
SECTION: (2) MPS NOZZLE					
PHI					
		.000	-.2510	-.2530	
		90.000	-.2570	-.2540	-.2540
		135.000	-.2630	-.2710	-.2590
		180.000	-.1110	-.1670	-.2690
		225.000	-.2750	-.2720	-.2570
		270.000	-.2590	-.2550	-.2540
SECTION: (3) MPS NOZZLE					
PHI					
		.000	-.2440	-.2470	
		90.000	-.2500	-.2470	-.2468
		135.000	-.2680	-.2660	-.2490
		180.000	-.1760	-.1470	-.2580
		225.000	-.2670	-.2630	-.2530
		270.000	-.2530	-.2490	-.2480
SECTION: (4) MPS NOZZLE					
PHI					
		.000	-.2300	-.2320	
		90.000	-.2350	-.2340	-.2330
		135.000	-.2350	-.2440	-.2340
		180.000	-.0930	-.2010	-.2340
		225.000	-.2360	-.2360	-.2350
		270.000	-.2390	-.2340	-.2310
SECTION: (5) MPS NOZZLE					
PHI					
		.000	-.2300	-.2400	
		90.000	-.2460	-.2430	-.2460
		135.000	-.2590	-.2570	-.2470
		180.000	-.1690	-.1470	-.2490
		225.000	-.2660	-.2560	-.2430

(RBC021)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 02A + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.980
 X/LNP .250 .500 .750
 PHI 270.000 -.2410 -.2380 -.2380

MACH (1) = 1.555 BETAT (6) = 6.040
 X/LNP .000 .2450 -.2480
 PHI 90.000 -.2530 -.2510 -.2520
 135.000 -.2750 -.2660 -.2530
 180.000 -.1020 -.1140 -.2580
 225.000 -.2810 -.2630 -.2490
 270.000 -.2480 -.2450 -.2440

MACH (1) = 1.555 BETAT (7) = 8.110
 X/LNP .250 .500 .750
 PHI 90.000 -.2570 -.2590
 135.000 -.2680 -.2640 -.2640
 180.000 -.2820 -.2730 -.2650
 225.000 -.1380 -.1050 -.2760
 270.000 -.2980 -.2690 -.2620

MACH (2) = 2.000 BETAT (1) = -8.340
 X/LNP .250 .500 .750
 PHI 90.000 -.1820 -.1830
 135.000 -.1950 -.1870 -.1880
 180.000 -.1970 -.1860 -.1940
 225.000 -.1370 -.0570 -.1990
 270.000 -.2050 -.1950 -.1880

MACH (2) = 2.000 BETAT (2) = -6.280
 X/LNP .250 .500 .750
 PHI 90.000 -.1880 -.1910
 135.000 -.1960 -.1920 -.1920
 180.000 -.2050 -.1920 -.1950
 225.000 -.1140 -.0340 -.2020
 270.000 -.2060 -.2040 -.1930

MACH (2) = 2.000 BETAT (3) = -4.210
 X/LNP .250 .500 .750
 PHI 90.000 -.1880 -.1890
 135.000 -.1890 -.1890 -.1890
 180.000 -.2210 -.2140 -.1960
 225.000 -.0300 -.0660 -.2020
 270.000 -.2090 -.2140 -.1970

(RECORDS)

AMES 97-707 1A9 OEA + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.210

X/LNP PHI	.250	.500	.750
270.000	-.1930	-.1900	-.1860

MACH (2) = 2.000 BETAT (4) = -.120

X/LNP PHI	.250	.500	.750
.000	-.1820	-.1830	
90.000	-.1830	-.1830	-.1830
135.000	-.1820	-.1840	-.1900
180.000	-.0240	-.0740	-.1825
225.000	-.2080	-.1970	-.1850
270.000	-.1840	-.1830	-.1810

MACH (2) = 2.000 BETAT (5) = 3.940

X/LNP PHI	.250	.500	.750
.000	-.1870	-.1950	
90.000	-.1950	-.1930	-.1930
135.000	-.2160	-.2040	-.1960
180.000	-.0550	-.0830	-.2030
225.000	-.2300	-.2010	-.2370
270.000	-.1940	-.1820	-.1860

MACH (2) = 2.000 BETAT (6) = 6.020

X/LNP PHI	.250	.500	.750
.000	-.1878	-.1880	
90.000	-.1910	-.1910	-.1920
135.000	-.2060	-.2030	-.1930
180.000	-.1180	-.0730	-.2010
225.000	-.2280	-.1870	-.1980
270.000	-.1960	-.1920	-.1840

MACH (2) = 2.000 BETAT (7) = 8.070

X/LNP PHI	.250	.500	.750
.000	-.1930	-.1940	
90.000	-.1990	-.1980	-.1990
135.000	-.2090	-.2110	-.2000
180.000	-.0490	-.0100	-.2095
225.000	-.2260	-.1940	-.2010
270.000	-.2030	-.1970	-.1890

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B (R80022) (24 MAY 73)

APES 97-707 IAS OEA + S3 + T9 UPPER MPS NOZZLE

PARAMETRIC DATA

ALPHAT = 8.0000 ORBINC = .0000
 RUDDER = -10.0000 ELEVON = .0000
 RUDDFLR = .0000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRF = 20.5000 INCHES
 LREF = 39.0490 INCHES YMRF = .00000 INCHES
 BREF = 39.0490 INCHES ZMRF = .00000 INCHES
 SCALE = .00300 SCALE

SECTION (1) MPS NOZZLE

MACH (1) = 1.555 BETAT (1) = -8.360

DEPENDENT VARIABLE CP

X/LNP	.250	.500	.750
PHI			
.000	-.2610	-.2630	
90.000	-.2690	-.2670	-.2670
135.000	-.2870	-.2690	-.2680
180.000	-.2170	-.2440	-.2720
225.000	-.2640	-.2660	-.2660
270.000	-.2710	-.2660	-.2640

MACH (1) = 1.555 BETAT (2) = -6.310

X/LNP	.250	.500	.750
PHI			
.000	-.2520	-.2550	
90.000	-.2630	-.2570	-.2570
135.000	-.2740	-.2630	-.2610
180.000	-.1410	-.1700	-.2680
225.000	-.2730	-.2660	-.2610
270.000	-.2630	-.2640	-.2570

MACH (1) = 1.555 BETAT (3) = -4.230

X/LNP	.250	.500	.750
PHI			
.000	-.2450	-.2480	
90.000	-.2510	-.2480	-.2480
135.000	-.2590	-.2650	-.2530
180.000	-.1870	-.1510	-.2610
225.000	-.2650	-.2630	-.2530
270.000	-.2520	-.2500	-.2500

MACH (1) = 1.555 BETAT (4) = -1.110

X/LNP	.250	.500	.750
PHI			
.000	-.2320	-.2330	
90.000	-.2390	-.2370	-.2340
135.000	-.2360	-.2440	-.2370
180.000	-.1190	-.2220	-.2360
225.000	-.2390	-.2350	-.2350
270.000	-.2410	-.2350	-.2320

MACH (1) = 1.555 BETAT (5) = 3.940

X/LNP	.250	.500	.750
PHI			
.000	-.2430	-.2450	
90.000	-.2500	-.2490	-.2490
135.000	-.2580	-.2610	-.2490
180.000	-.1850	-.1780	-.2530
225.000	-.2680	-.2590	-.2460

(R0022)

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1A98
 AMES 97-797 1A9 02A + S3 + 79 UPPER MPS NOZZLE

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE

MACH (1) = 1.555 BETAT (5) = 3.940

X/LNF	.250	.500	.750
PHI			
270.000	-.2490	-.2440	-.2420

MACH (1) = 1.555 BETAT (6) = 6.060

X/LNF	.250	.500	.750
PHI			
.000	-.2510	-.2540	
90.000	-.2590	-.2570	-.2570
135.000	-.2750	-.2670	-.2570
180.000	-.1490	-.2130	-.2630
225.000	-.2860	-.2870	-.2570
270.000	-.2570	-.2530	-.2510

MACH (1) = 1.555 BETAT (7) = 8.120

X/LNF	.250	.500	.750
PHI			
.000	-.2640	-.2650	
90.000	-.2730	-.2700	-.2690
135.000	-.2880	-.2740	-.2710
180.000	-.2000	-.1740	-.2750
225.000	-.3060	-.2650	-.2680
270.000	-.2670	-.2670	-.2650

MACH (2) = 2.000 BETAT (1) = -8.330

X/LNF	.250	.500	.750
PHI			
.000	-.1820	-.1830	
90.000	-.1950	-.1860	-.1840
135.000	-.1940	-.1770	-.1940
180.000	-.1570	-.0630	-.1960
225.000	-.2140	-.1910	-.1870
270.000	-.1880	-.1860	-.1830

MACH (2) = 2.000 BETAT (2) = -6.280

X/LNF	.250	.500	.750
PHI			
.000	-.1860	-.1880	
90.000	-.1980	-.1900	-.1890
135.000	-.2140	-.1830	-.1980
180.000	-.0860	-.0730	-.2140
225.000	-.2030	-.2020	-.1910
270.000	-.1910	-.1890	-.1860

MACH (2) = 2.000 BETAT (3) = -4.220

X/LNF	.250	.500	.750
PHI			
.000	-.1940	-.1920	
90.000	-.1980	-.1930	-.1930
135.000	-.2140	-.2010	-.1990
180.000	-.0560	-.0770	-.2030
225.000	-.2080	-.2050	-.1980

(RBCD22)

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1A9B
 AMES 97-707 1A9 OEA + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE		DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (3) = -4.220	X/LNP .250	.500 .750
		PHI	
		270.000	-.1940 -.1930 -.1910
MACH (2) = 2.000	BETAT (4) = -.110	X/LNP .250	.500 .750
		PHI	
		.000	-.1850 -.1860
		90.000	-.1880 -.1880
		135.000	-.1880 -.1880
		180.000	-.1890 -.1860
		225.000	-.2110 -.1970
		270.000	-.1890 -.1890
MACH (2) = 2.000	BETAT (5) = .000	X/LNP .250	.500 .750
		PHI	
		.000	-.1890 -.1910
		90.000	-.1940 -.1930
		135.000	-.2120 -.2170
		180.000	-.1880 -.1780
		225.000	-.2140 -.2120
		270.000	-.1990 -.1930
MACH (2) = 2.000	BETAT (6) = 6.050	X/LNP .250	.500 .750
		PHI	
		.000	-.1840 -.1860
		90.000	-.1890 -.1880
		135.000	-.2030 -.2020
		180.000	-.1310 -.0160
		225.000	-.2210 -.1810
		270.000	-.1960 -.1890
MACH (2) = 2.000	BETAT (7) = 8.110	X/LNP .250	.500 .750
		PHI	
		.000	-.1890 -.1920
		90.000	-.1950 -.1940
		135.000	-.2060 -.2070
		180.000	-.1950 -.1170
		225.000	-.2210 -.1890
		270.000	-.2010 -.1930

(RBC023) (24 MAY 73)

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 OEA + S3 + T9 UPPER MPS NOZZLE

PARAMETRIC DATA
 ALPHAT = -8.0000 ORBINC = .0000
 RUDDER = 15.0000 ELEVON = .0000
 RUDFLR = .0000

REFERENCE DATA
 SREF = 2.4210 50.FT. XMRP = 28.5000 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BRP = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

SECTION (1) MPS NOZZLE
 DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.4000

X/LNF	PHI	.250	.500	.750
90.000		-.2170	-.2160	
95.000		-.2170	-.2150	-.2120
135.000		-.2660	-.2250	-.2379
180.000		-.0610	-.0320	-.2350
225.000		-.2590	-.2470	-.2180
270.000		-.2250	-.2200	-.2180

MACH (1) = 1.555 BETAT (2) = -6.3600

X/LNF	PHI	.250	.500	.750
90.000		-.2140	-.2120	
95.000		-.2160	-.2120	-.2130
135.000		-.2660	-.2240	-.2360
180.000		-.0130	-.0460	-.2330
225.000		-.2480	-.2480	-.2159
270.000		-.2200	-.2160	-.2120

MACH (1) = 1.555 BETAT (3) = -4.2900

X/LNF	PHI	.250	.500	.750
90.000		-.2260	-.2240	
95.000		-.2230	-.2240	-.2260
135.000		-.2830	-.2340	-.2390
180.000		.0120	-.0380	-.2420
225.000		-.2570	-.2580	-.2300
270.000		-.2340	-.2290	-.2270

MACH (1) = 1.555 BETAT (4) = -1.1700

X/LNF	PHI	.250	.500	.750
90.000		-.2410	-.2410	
95.000		-.2460	-.2450	-.2420
135.000		-.2730	-.2560	-.2580
180.000		.0980	-.0400	-.2550
225.000		-.2650	-.2530	-.2550
270.000		-.2450	-.2450	-.2420

MACH (1) = 1.555 BETAT (5) = 3.9400

X/LNF	PHI	.250	.500	.750
90.000		-.2180	-.2160	
95.000		-.2230	-.2230	-.2220
135.000		-.2390	-.2470	-.2240
180.000		-.0440	-.0270	-.2360
225.000		-.2760	-.2350	-.2340

DATE 21 SEP 73

TASULATED PRESSURE DATA - 1A98

AMES 97-707 1A9 OEA + S3 + T9 UPPER MPS NOZZLE

(RB0023)

SECTION (1) MPS NOZZLE

DEFENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 3.940
 X/LNP .250 .500 .750
 PHI 270.000 -0.2180 -0.2180 -0.2160

MACH (1) = 1.555 BETAT (6) = 6.060
 X/LNP .000 .250 .500 .750
 PHI 90.000 -0.2150 -0.2130
 135.000 -0.2240 -0.2190 -0.2170
 180.000 -0.2640 -0.2440 -0.2180
 225.000 -0.0190 -0.0190 -0.2370
 270.000 -0.2860 -0.2300 -0.2380
 270.000 -0.2160 -0.2160 -0.2070

MACH (2) = 2.000 BETAT (1) = -6.380
 X/LNP .250 .500 .750
 PHI 90.000 -0.1480 -0.1520
 135.000 -0.1650 -0.1540 -0.1460
 180.000 -0.0860 -0.1680 -0.1700
 225.000 0.0890 -0.0270 -0.1680
 270.000 -0.2080 -0.1780 -0.1670
 270.000 -0.1610 -0.1560 -0.1510

MACH (2) = 2.000 BETAT (2) = -6.330
 X/LNP .250 .500 .750
 PHI 90.000 -0.1630 -0.1680
 135.000 -0.1760 -0.1710 -0.1630
 180.000 -0.1070 -0.1940 -0.1860
 225.000 0.0030 -0.0030 -0.1770
 270.000 -0.2110 -0.1840 -0.1890
 270.000 -0.1750 -0.1710 -0.1650

MACH (2) = 2.000 BETAT (3) = -4.280
 X/LNP .250 .500 .750
 PHI 90.000 -0.1580 -0.1590
 135.000 -0.1670 -0.1650 -0.1570
 180.000 -0.1490 -0.1780 -0.1770
 225.000 0.0330 -0.0330 -0.1690
 270.000 -0.1990 -0.1680 -0.1780
 270.000 -0.1660 -0.1640 -0.1580

MACH (2) = 2.000 BETAT (4) = -1.170
 X/LNF .250 .500 .750
 PHI 90.000 -0.1570 -0.1590
 135.000 -0.1610 -0.1590 -0.1590
 180.000 -0.2260 -0.1680 -0.1790
 225.000 0.0530 -0.1670
 270.000 -0.2050 -0.1720 -0.1740

DATE 23 SEP 73

TABLATED PRESSURE DATA - 1A98
AMES 97-707 1A9 02A + S3 + T9 UPPER MPS NOZZLE

(RBO023)

SECTION (1) MPS NOZZLE ?

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (4) = -.170

X/LNP	PHI	.250	.500	.750
270.000		-.1630	-.1610	-.1570

MACH (2) = 2.000 BETAT (5) = 3.930

X/LNP	PHI	.250	.500	.750
.000		-.1630	-.1670	
90.000		-.1770	-.1730	-.1680
135.000		-.2190	-.1870	-.1860
180.000		.1270	.0420	-.1740
225.000		-.1770	-.1950	-.1880
270.000		-.1770	-.1720	-.1640

MACH (2) = 2.000 BETAT (6) = 5.980

X/LNP	PHI	.250	.500	.750
.000		-.1650	-.1690	
90.000		-.1800	-.1740	-.1700
135.000		-.2260	-.2010	-.1880
180.000		.1010	.0040	-.1760
225.000		-.1330	-.2080	-.1970
270.000		-.1870	-.1790	-.1750

MACH (2) = 2.000 BETAT (7) = 8.040

X/LNP	PHI	.250	.500	.750
.000		-.1580	-.1630	
90.000		-.1690	-.1660	-.1630
135.000		-.2220	-.1920	-.1750
180.000		.1240	-.0210	-.1790
225.000		-.1160	-.1940	-.1940
270.000		-.1850	-.1720	-.1630

(RBC024) (24 MAY 73)

ABULATED PRESSURE DATA - 1A9B
 AMES 97-707 1A9 O2A + S3 + T9 UPPER MPS NOZZLE

DATE 21 SEP 73

PARAMETRIC DATA

ALPHAT = -4.000 CRBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5310 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE
 MACH (1) = 1.555 BETAT (1) = -6.330

X/LNP	.250	.500	.750
PHI			
.000	-.2290	-.2310	
90.000	-.2290	-.2250	-.2310
135.000	-.2670	-.2380	-.2450
180.000	-.0980	-.0160	-.2900
225.000	-.2750	-.2540	-.2350
270.000	-.2410	-.2350	-.2330

MACH (2) = 1.555 BETAT (2) = -6.290

X/LNP	.250	.500	.750
PHI			
.000	-.2270	-.2260	
90.000	-.2270	-.2240	-.2270
135.000	-.2750	-.2370	-.2430
180.000	-.0490	-.0520	-.2460
225.000	-.2630	-.2530	-.2310
270.000	-.2360	-.2310	-.2310

MACH (3) = 1.555 BETAT (3) = -4.240

X/LNP	.250	.500	.750
PHI			
.000	-.2310	-.2310	
90.000	-.2310	-.2310	-.2320
135.000	-.2740	-.2380	-.2410
180.000	-.0460	-.0680	-.2430
225.000	-.2570	-.2540	-.2360
270.000	-.2380	-.2350	-.2350

MACH (4) = 1.555 BETAT (4) = -.150

X/LNP	.250	.500	.750
PHI			
.000	-.2420	-.2430	
90.000	-.2490	-.2460	-.2450
135.000	-.2650	-.2560	-.2560
180.000	-.0270	-.0780	-.2570
225.000	-.2640	-.2550	-.2510
270.000	-.2470	-.2450	-.2420

MACH (5) = 1.555 BETAT (5) = 3.940

X/LNP	.250	.500	.750
PHI			
.000	-.2280	-.2260	
90.000	-.2380	-.2330	-.2340
135.000	-.2530	-.2510	-.2360
180.000	-.0860	-.0440	-.2420
225.000	-.2710	-.2420	-.2390

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

AMES 97-707 1A9 02A + S3 + T9 UPPER MPS NOZZLE (RB0024)

SECTION (1) MPS NOZZLE		DEPENDENT VARIABLE CP	
MACH (1) = 1.555	BETAT (5) = 3.940	X/LNP	.250 .500 .750
		PHI	
		270.000	-.2270 -.2260 -.2270
MACH (1) = 1.555	BETAT (6) = 5.980	X/LNP	.250 .500 .750
		PHI	
		.000	-.2270 -.2260
		90.000	-.2360 -.2310 -.2320
		135.000	-.2590 -.2610 -.2350
		180.000	-.0610 -.0690 -.2490
		225.000	-.2670 -.2470 -.2500
		270.000	-.2300 -.2270 -.2240
MACH (1) = 1.555	BETAT (7) = 8.030	X/LNP	.250 .500 .750
		PHI	
		.000	-.2230 -.2230
		90.000	-.2340 -.2310 -.2300
		135.000	-.2770 -.2430 -.2310
		180.000	-.0920 -.0090 -.2460
		225.000	-.2870 -.2410 -.2440
		270.000	-.2260 -.2230 -.2190
MACH (2) = 2.000	BETAT (1) = -0.310	X/LNP	.250 .500 .750
		PHI	
		.000	-.1580 -.1630
		90.000	-.1670 -.1990 -.1570
		135.000	-.1380 -.1480 -.1650
		180.000	.0270 .0620 -.1790
		225.000	-.1990 -.1940 .1.1660
		270.000	-.1670 -.1650 -.1610
MACH (2) = 2.000	BETAT (2) = -6.270	X/LNP	.250 .500 .750
		PHI	
		.000	-.1670 -.1720
		90.000	-.1770 -.1710 -.1690
		135.000	-.1510 -.1740 -.1770
		180.000	.0480 .0400 -.1840
		225.000	-.2100 -.1820 -.1870
		270.000	-.1760 -.1740 -.1690
MACH (2) = 2.000	BETAT (3) = -4.230	X/LNP	.250 .500 .750
		PHI	
		.000	-.1720 -.1750
		90.000	-.1800 -.1750 -.1720
		135.000	-.1840 -.1830 -.1820
		180.000	.1110 .0210 -.1840
		225.000	-.2180 -.1830 -.1890

DATE 21 SEP 77 TABULATED PRESSURE DATA - 1A98

AMES 97-707 1A9 OEA + S3 + T9 UPPER MPS NOZZLE

(R80024)

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.230
 X/LNF .250 .500 .750
 PHI
 270.000 -.1780 -.1770 -.1720

MACH (2) = 2.000 BETAT (4) = -3.160
 X/LNF .250 .500 .750
 PHI
 .000 -.1700 -.1720
 90.000 -.1740 -.1720 -.1730
 135.000 -.2270 -.1810 -.1890
 180.000 .0940 .0280 -.1780
 225.000 -.2070 -.1860 -.1820
 270.000 -.1750 -.1730 -.1680

MACH (2) = 2.000 BETAT (5) = 3.920
 X/LNF .250 .500 .750
 PHI
 .000 -.1750 -.1790
 90.000 -.1860 -.1820 -.1800
 135.000 -.2250 -.1950 -.1940
 180.000 .0510 .0260 -.1860
 225.000 -.2010 -.1970 -.1940
 270.000 -.1850 -.1810 -.1740

MACH (2) = 2.000 BETAT (6) = 5.960
 X/LNF .250 .500 .750
 PHI
 .000 -.1720 -.1780
 90.000 -.1820 -.1780 -.1780
 135.000 -.2260 -.1960 -.1890
 180.000 .0440 -.0230 -.1940
 225.000 -.1790 -.2010 -.1980
 270.000 -.1880 -.1800 -.1730

MACH (2) = 2.000 BETAT (7) = 8.010
 X/LNF .250 .500 .750
 PHI
 .000 -.1670 -.1710
 90.000 -.1760 -.1740 -.1730
 135.000 -.2140 -.2030 -.1770
 180.000 .0510 .0640 -.1880
 225.000 -.1580 -.1860 -.1920
 270.000 -.1800 -.1700 -.1630

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.9300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .0000 ORBINC = .0000
 RUDDER = 15.0000 ELEVON = .0000
 RUDFLR = .0000

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -0.320

X/LNP	.250	.500	.750
PHI			
.000	-.2450	-.2480	
90.000	-.2490	-.2490	-.2480
135.000	-.2520	-.2670	-.2560
180.000	-.0890	-.0950	-.2650
225.000	-.2810	-.2670	-.2540
270.000	-.2560	-.2510	-.2510

MACH (1) = 1.555 BETAT (2) = -0.270

X/LNP	.250	.500	.750
PHI			
.000	-.2330	-.2360	
90.000	-.2360	-.2340	-.2370
135.000	-.2650	-.2500	-.2430
180.000	-.0080	-.0780	-.2540
225.000	-.2620	-.2620	-.2410
270.000	-.2420	-.2380	-.2380

MACH (1) = 1.555 BETAT (3) = -4.240

X/LNP	.250	.500	.750
PHI			
.000	-.2360	-.2380	
90.000	-.2370	-.2370	-.2390
135.000	-.2650	-.2460	-.2440
180.000	-.0660	-.1400	-.2480
225.000	-.2640	-.2490	-.2420
270.000	-.2440	-.2410	-.2410

MACH (1) = 1.555 BETAT (4) = -.130

X/LNP	.250	.500	.750
PHI			
.000	-.2370	-.2370	
90.000	-.2420	-.2410	-.2410
135.000	-.2470	-.2540	-.2470
180.000	-.0380	-.1260	-.2310
225.000	-.2560	-.2500	-.2430
270.000	-.2420	-.2380	-.2370

MACH (1) = 1.555 BETAT (5) = 3.990

X/LNP	.250	.500	.750
PHI			
.000	-.2370	-.2370	
90.000	-.2450	-.2420	-.2430
135.000	-.2610	-.2530	-.2440
180.000	-.1130	-.0680	-.2510
225.000	-.2720	-.2540	-.2430

(RBC025)

DATE 21 SEP 75
 COMPUTED PRESSURE DATA - 1A98
 AMES 97-757 1A9 O2A + S3 + T9 UPPER MPS NOZZLE

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE

MACH (1) = 1.955 BETAT (5) = 3.950
 X/LNF .250 .500 .750
 PHI 270.000 -0.2360 -0.2340 -0.2360

MACH (1) = 1.555 BETAT (6) = 5.990
 X/LNF .250 .500 .750
 PHI .000 -0.2380 -0.2400
 90.000 -0.2480 -0.2450 -0.2470
 135.000 -0.2640 -0.2730 -0.2490
 180.000 -0.0510 -0.0280 -0.2590
 225.000 -0.2880 -0.2610 -0.2540
 270.000 -0.2420 -0.2380 -0.2360

MACH (1) = 1.555 BETAT (7) = 8.000
 X/LNF .250 .500 .750
 PHI .000 -0.2390 -0.2410
 90.000 -0.2500 -0.2460 -0.2470
 135.000 -0.2750 -0.2630 -0.2490
 180.000 -0.0660 -0.0480 -0.2590
 225.000 -0.2900 -0.2690 -0.2490
 270.000 -0.2410 -0.2370 -0.2350

MACH (2) = 2.000 BETAT (1) = -8.290
 X/LNF .250 .500 .750
 PHI .000 -0.1700 -0.1720
 90.000 -0.1730 -0.1710 -0.1730
 135.000 -0.1880 -0.1790 -0.1770
 180.000 -0.0390 -0.0490 -0.1870
 225.000 -0.1910 -0.1850 -0.1740
 270.000 -0.1780 -0.1750 -0.1710

MACH (2) = 2.000 BETAT (2) = -6.250
 X/LNF .250 .500 .750
 PHI .000 -0.1710 -0.1740
 90.000 -0.1770 -0.1730 -0.1720
 135.000 -0.1860 -0.1780 -0.1790
 180.000 -0.0120 -0.0490 -0.1890
 225.000 -0.2050 -0.1960 -0.1780
 270.000 -0.1790 -0.1770 -0.1730

MACH (2) = 2.000 BETAT (3) = -4.210
 X/LNF .250 .500 .750
 PHI .000 -0.1770 -0.1790
 90.000 -0.1830 -0.1790 -0.1790
 135.000 -0.2030 -0.1890 -0.1850
 180.000 -0.0400 -0.0280 -0.1950
 225.000 -0.2090 -0.1890 -0.1910

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

(RECORDS)

AMES 97-707 IAS OEA + S3 + T9 UPPER NPS NOZZLE

SECTION (1) 11MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.210
 X/LNP .250 .500 .750
 PHI
 270.000 -.1830 -.1820 -.1780

MACH (2) = 2.000 BETAT (4) = -3.140
 X/LNP .250 .500 .750
 PHI
 .000 -.1760 -.1780
 90.000 -.1820 -.1810 -.1790
 135.000 -.2210 -.1880 -.1940
 180.000 .0440 .0220 -.1880
 225.000 -.2080 -.1920 -.1850
 270.000 -.1810 -.1790 -.1760

MACH (2) = 2.000 BETAT (5) = 3.950
 X/LNP .250 .500 .750
 PHI
 .000 -.1820 -.1840
 90.000 -.1890 -.1860 -.1850
 135.000 -.2280 -.1940 -.1980
 180.000 .0740 .0230 -.1950
 225.000 -.2170 -.2010 -.1960
 270.000 -.1890 -.1850 -.1790

MACH (2) = 2.000 BETAT (6) = 6.020
 X/LNP .250 .500 .750
 PHI
 .000 -.1760 -.1780
 90.000 -.1840 -.1820 -.1830
 135.000 -.1990 -.1980 -.1830
 180.000 .0590 .0550 -.1980
 225.000 -.2140 -.1890 -.1980
 270.000 -.1930 -.1810 -.1740

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 CGA + S3 + T9 UPPER MFS NOZZLE

(R50026) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. YMRP = 20.5350 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

SECTION (1) MFS NOZZLE

MACH (1) = 1.555 BETAT (1) = -8.300

DEPENDENT VARIABLE CP

X/LNP	.250	.500	.750
PHI			
.000	-.2530	-.2540	
90.000	-.2570	-.2520	-.2550
135.000	-.2980	-.2790	-.2660
180.000	-.0790	-.2270	-.2640
225.000	-.2860	-.2670	-.2600
270.000	-.2590	-.2570	-.2570

MACH (1) = 1.555 BETAT (2) = -6.260

X/LNP	.250	.500	.750
PHI			
.000	-.2430	-.2460	
90.000	-.2460	-.2440	-.2460
135.000	-.2730	-.2670	-.2500
180.000	-.0420	-.1580	-.2590
225.000	-.2720	-.2650	-.2510
270.000	-.2520	-.2470	-.2460

MACH (1) = 1.555 BETAT (3) = -4.220

X/LNP	.250	.500	.750
PHI			
.000	-.2420	-.2430	
90.000	-.2440	-.2440	-.2430
135.000	-.2610	-.2540	-.2480
180.000	-.0430	-.1490	-.2530
225.000	-.2630	-.2590	-.2480
270.000	-.2490	-.2450	-.2440

MACH (1) = 1.555 BETAT (4) = -3.120

X/LNP	.250	.500	.750
PHI			
.000	-.2320	-.2320	
90.000	-.2350	-.2340	-.2350
135.000	-.2320	-.2470	-.2370
180.000	-.0780	-.1710	-.2370
225.000	-.2410	-.2430	-.2350
270.000	-.2360	-.2340	-.2320

MACH (1) = 1.555 BETAT (5) = 3.960

X/LNP	.250	.500	.750
PHI			
.000	-.2460	-.2480	
90.000	-.2550	-.2510	-.2520
135.000	-.2700	-.2670	-.2530
180.000	-.0700	-.1360	-.2580
225.000	-.2800	-.2620	-.2500
270.000	-.2600	-.2620	-.2500

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .000
 RUDDER = 15.000 ELEVEN = .000
 RUDFLR = .000

(RBCD26)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

AMES 97-7U7 IAS OSA + S3 + T9 UPPER MPS NOZZLE

SECTION (1) MPS NOZZLE		DEPENDENT VARIABLE CP	
MACH (1) = 1.555	BETAT (5) = 3.96U	X/LNP	.25U .5UU .75U
		PHI	
		27U.UUU	-.246U -.246U -.244U
MACH (1) = 1.555	BETAT (6) = 6.01U	X/LNP	.25U .5UU .75U
		PHI	
		.UUU	-.253U -.255U
		9U.UUU	-.261U -.259U -.262U
		135.UUU	-.26UU -.277U -.262U
		18U.UUU	-.U87U -.U82U -.269U
		225.UUU	-.294U -.279U -.265U
		27U.UUU	-.255U -.252U -.251U
MACH (1) = 1.555	BETAT (7) = 8.09U	X/LNP	.25U .5UU .75U
		PHI	
		.UUU	-.251U -.252U
		9U.UUU	-.262U -.259U -.259U
		135.UUU	-.279U -.268U -.267U
		18U.UUU	-.U13U -.U64U -.267U
		225.UUU	-.295U -.279U -.259U
		27U.UUU	-.254U -.249U -.249U
MACH (2) = 2.1UUU	BETAT (1) = -8.26U	X/LNP	.25U .5UU .75U
		PHI	
		.UUU	-.177U -.178U
		9U.UUU	-.189U -.183U -.182U
		135.UUU	-.192U -.172U -.185U
		18U.UUU	-.195U -.U23U -.193U
		225.UUU	-.214U -.182U -.182U
		27U.UUU	-.186U -.183U -.179U
MACH (2) = 2.0UUU	BETAT (2) = -6.23U	X/LNP	.25U .5UU .75U
		PHI	
		.UUU	-.181U -.181U
		9U.UUU	-.184U -.182U -.182U
		135.UUU	-.2U3U -.184U -.194U
		18U.UUU	-.U69U -.U55U -.196U
		225.UUU	-.2U7U -.195U -.186U
		27U.UUU	-.188U -.185U -.182U
MACH (2) = 2.0UUU	BETAT (3) = -4.21U	X/LNP	.25U .5UU .75U
		PHI	
		.UUU	-.183U -.184U
		9U.UUU	-.186U -.185U -.185U
		135.UUU	-.221U -.195U -.192U
		18U.UUU	-.U49U -.U46U -.198U
		225.UUU	-.211U -.198U -.193U

(RBC026)

ABLATED PRESSURE DATA - 1A99

AMES 97-71.7 1A9 OGA + S3 + T9 UPPER MPS NOZZLE

DATE 2: SEP 71

SECTION (1) MPS NOZZLE	DEPENDENT VARIABLE CP	
MACH (2) = 2.000 BETAT (3) = -4.200	X/LNF PHI	.250 .500 .750
	270.000	-.1890 -1.1870 -1.1840
MACH (2) = 2.000 BETAT (4) = -1.120	X/LNF PHI	.250 .500 .750
	.000	-.1820 -1.1830
	90.000	-.1860 -1.1840 -1.1850
	135.000	-.2030 -1.1870 -1.1970
	180.000	.0140 -1.1980 -1.1920
	225.000	-.2080 -1.1970 -1.1870
	270.000	-.1850 -1.1830 -1.1810
MACH (2) = 2.000 BETAT (5) = 3.950	X/LNF PHI	.250 .500 .750
	.000	-.1940 -1.1950
	90.000	-.2000 -1.1990 -1.1990
	135.000	-.2180 -2.110 -2.020
	180.000	-.1830 -1.130 -2.160
	225.000	-.2390 -2.180 -2.160
	270.000	-.1980 -1.1970 -1.1910
MACH (3) = 2.100 BETAT (6) = 5.090	X/LNF PHI	.250 .500 .750
	.000	-.1890 -1.1870
	90.000	-.1910 -1.1910 -1.1920
	135.000	-.2130 -2.150 -1.920
	180.000	-.1750 -1.020 -2.170
	225.000	-.2290 -1.960 -2.020
	270.000	-.1940 -1.1940 -1.1850
MACH (2) = 2.000 BETAT (7) = 8.030	X/LNF PHI	.250 .500 .750
	.000	-.1910 -1.1930
	90.000	-.1980 -1.1970 -1.1970
	135.000	-.2130 -2.110 -1.970
	180.000	-.0300 -1.190 -2.110
	225.000	-.2140 -1.1990 -2.170
	270.000	-.2030 -1.1860 -1.1880

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

AMES 97-757 1A9 O2A + S3 + T9 UPPER MPS NOZZLE

(R80027) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 90.FT. XMRP = 28.5300 INCHES
 LRFP = 39.8490 INCHES YMRP = .0000 INCHES
 BRFP = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.0000 ORBINC = .0000
 RUDDER = 15.0000 ELEVON = .0000
 RUDFLR = .0000

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.330	X/LNF	.250	.500	.750
PHI					
		.000	-.2600	-.2610	.750
		90.000	-.2640	-.2610	-.2630
		135.000	-.2980	-.2780	-.2710
		180.000	-.1650	-.2410	-.2750
		225.000	-.2890	-.2730	-.2670
		270.000	-.2680	-.2650	-.2640
PHI					
		.000	-.2520	-.2540	.750
		90.000	-.2570	-.2550	-.2560
		135.000	-.2780	-.2690	-.2680
		180.000	-.1890	-.1440	-.2690
		225.000	-.2800	-.2770	-.2570
		270.000	-.2610	-.2570	-.2550
PHI					
		.000	-.2420	-.2450	.750
		90.000	-.2450	-.2430	-.2440
		135.000	-.2600	-.2600	-.2500
		180.000	-.1600	-.1420	-.2580
		225.000	-.2670	-.2590	-.2500
		270.000	-.2500	-.2480	-.2470
PHI					
		.000	-.2340	-.2360	.750
		90.000	-.2400	-.2400	-.2370
		135.000	-.2360	-.2330	-.2390
		180.000	-.1890	-.1930	-.2400
		225.000	-.2440	-.2450	-.2400
		270.000	-.2420	-.2400	-.2370
PHI					
		.000	-.2300	-.2300	.750
		90.000	-.2470	-.2490	.750
		135.000	-.2560	-.2540	-.2550
		180.000	-.2680	-.2720	-.2560
		225.000	-.1870	-.1320	-.2610
		270.000	-.2770	-.2660	-.2540

MACH (1) = 1.555 BETAT (2) = -6.270

MACH (1) = 1.555 BETAT (3) = -4.230

MACH (1) = 1.555 BETAT (4) = -.110

MACH (1) = 1.555 BETAT (5) = 3.990

(R8027)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98
 AMES 97-703 IAS OZA + S3 + T9 UPPER NFS NOZZLE

SECTION (1) MFS NOZZLE		DEPENDENT VARIABLE CP	
MACH (1) = 1.555	BETAT (5) = 3.990	X/LNF .250	.500 .750
		PHI	
		270.000	-.2310 -.2480 -.2480
MACH (1) = 1.555	BETAT (6) = 6.030	X/LNF .250	.500 .750
		PHI	
		.000	-.2550 -.2550
		90.000	-.2620 -.2580 -.2590
		135.000	-.2780 -.2750 -.2640
		180.000	-.1160 -.1940 -.2680
		225.000	-.2880 -.2740 -.2600
		270.000	-.2550 -.2550 -.2520
MACH (1) = 1.555	BETAT (7) = 8.090	X/LNF .250	.500 .750
		PHI	
		.000	-.2550 -.2570
		90.000	-.2660 -.2630 -.2610
		135.000	-.2810 -.2680 -.2620
		180.000	-.1530 -.1010 -.2710
		225.000	-.2930 -.2690 -.2640
		270.000	-.2570 -.2540 -.2530
MACH (2) = 2.000	BETAT (1) = -8.300	X/LNF .250	.500 .750
		PHI	
		.000	-.1800 -.1820
		90.000	-.1960 -.1870 -.1860
		135.000	-.1920 -.1760 -.1880
		180.000	-.1220 -.1610 -.1960
		225.000	-.2060 -.1940 -.1860
		270.000	-.1870 -.1850 -.1820
MACH (2) = 2.000	BETAT (2) = -6.250	X/LNF .250	.500 .750
		PHI	
		.000	-.1840 -.1850
		90.000	-.1930 -.1880 -.1860
		135.000	-.1970 -.1820 -.1980
		180.000	-.1860 -.1710 -.1990
		225.000	-.2050 -.2000 -.1890
		270.000	-.1900 -.1880 -.1850
MACH (2) = 2.000	BETAT (3) = -4.200	X/LNF .250	.500 .750
		PHI	
		.000	-.1860 -.1870
		90.000	-.1880 -.1880 -.1880
		135.000	-.2250 -.1970 -.1960
		180.000	-.1410 -.1670 -.2040
		225.000	-.2100 -.1990 -.1960

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

(R50027)

AMES 97-707 IA9 O2A + S3 + T9 UPPER MPS NOZZLE

DEPENDENT VARIABLE CP

SECTION (1) MPS NOZZLE

MACH (2) = 2.000 BETAT (3) = -4.200
 X/LNP .250 .500 .750
 PHI
 270.000 -.1910 -.1890 -.1850

MACH (2) = 2.000 BETAT (4) = -3.120
 X/LNP .250 .500 .750
 PHI
 .000 -.1840 -.1850

90.000 -.1870 -.1870 -.1860
 135.000 -.1980 -.1890 -.1970
 180.000 -.0040 -.0850 -.1960
 225.000 -.2140 -.2090 -.1880
 270.000 -.1870 -.1870 -.1830

MACH (2) = 2.000 BETAT (5) = 3.970
 X/LNP .250 .500 .750
 PHI
 .000 -.1940 -.1960
 90.000 -.2020 -.1990 -.2010
 135.000 -.2200 -.2130 -.2120
 180.000 -.0410 -.1300 -.2080
 225.000 -.2380 -.2190 -.2180
 270.000 -.2010 -.1990 -.1940

MACH (2) = 2.000 BETAT (6) = 6.030
 X/LNP .250 .500 .750
 PHI
 .000 -.1920 -.1920
 90.000 -.1960 -.1960 -.1960
 135.000 -.2160 -.2100 -.1980
 180.000 -.1050 -.0380 -.2070
 225.000 -.2310 -.2000 -.2060
 270.000 -.1990 -.1950 -.1890

MACH (2) = 2.000 BETAT (7) = 8.070
 X/LNP .250 .500 .750
 PHI
 .000 -.1950 -.1970
 90.000 -.2010 -.2000 -.2010
 135.000 -.2140 -.2140 -.2010
 180.000 -.0560 -.0460 -.2130
 225.000 -.2230 -.1980 -.2070
 270.000 -.2050 -.2000 -.1920

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 O2A + S3 + T9 UPPER MPS NOZZLE

(RBC028) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHAT = 8.0000 CRBINC = .0000
 RUDDER = 15.0000 ELEVON = .0000
 RUCFLR = .0000

SECTION (1) MPS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.350

X/LNP	.250	.500	.750
PHI			
.000	-.2650	-.2670	
90.000	-.2740	-.2710	-.2710
135.000	-.2920	-.2740	-.2720
180.000	-.2070	-.2500	-.2770
225.000	-.2920	-.2730	-.2720
270.000	-.2740	-.2710	-.2680

MACH (1) = 1.555 BETAT (2) = -6.300

X/LNP	.250	.500	.750
PHI			
.000	-.2540	-.2570	
90.000	-.2610	-.2590	-.2570
135.000	-.2720	-.2630	-.2610
180.000	-.1220	-.1740	-.2700
225.000	-.2760	-.2670	-.2610
270.000	-.2640	-.2600	-.2590

MACH (1) = 1.555 BETAT (3) = -4.230

X/LNP	.250	.500	.750
PHI			
.000	-.2440	-.2470	
90.000	-.2500	-.2470	-.2470
135.000	-.2500	-.2640	-.2560
180.000	-.1670	-.1540	-.2610
225.000	-.2660	-.2630	-.2540
270.000	-.2520	-.2500	-.2500

MACH (1) = 1.555 BETAT (4) = -.110

X/LNP	.250	.500	.750
PHI			
.000	-.2360	-.2360	
90.000	-.2420	-.2390	-.2390
135.000	-.2380	-.2300	-.2410
180.000	-.1000	-.2170	-.2410
225.000	-.2450	-.2420	-.2390
270.000	-.2430	-.2390	-.2380

MACH (1) = 1.555 BETAT (5) = 4.000

X/LNP	.250	.500	.750
PHI			
.000	-.2500	-.2520	
90.000	-.2590	-.2570	-.2580
135.000	-.2650	-.2730	-.2590
180.000	-.1000	-.1440	-.2630
225.000	-.2780	-.2680	-.2530

DATE 21 SEP 79

TABLULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 C8A + S3 + T9 UPPER MPS NOZZLE

(RBC028)

SECTION (1) MPS. NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (5) = 4.000	X/LNP	.250	.500	.750
PHI					
		270.000	-.2540	-.2510	-.2490
MACH (1) = 1.555 BETAT (6) = 6.000					
PHI					
		.000	-.2550	-.2580	
		90.000	-.2650	-.2630	-.2630
		135.000	-.2830	-.2720	-.2630
		180.000	-.1580	-.1360	-.2710
		225.000	-.2910	-.2670	-.2630
		270.000	-.2610	-.2590	-.2560
MACH (1) = 1.555 BETAT (7) = 8.130					
PHI					
		.000	-.2600	-.2590	
		90.000	-.2700	-.2650	-.2630
		135.000	-.2840	-.2680	-.2640
		180.000	-.2040	-.1500	-.2710
		225.000	-.3000	-.2630	-.2630
		270.000	-.2640	-.2610	-.2590
MACH (2) = 2.000 BETAT (1) = -6.320					
PHI					
		.000	-.1790	-.1810	
		90.000	-.1940	-.1850	-.1830
		135.000	-.1920	-.1690	-.1890
		180.000	-.1480	-.1670	-.1940
		225.000	-.2160	-.1880	-.1850
		270.000	-.1860	-.1850	-.1810
MACH (2) = 2.000 BETAT (2) = -6.260					
PHI					
		.000	-.1860	-.1870	
		90.000	-.1990	-.1900	-.1890
		135.000	-.2100	-.1800	-.1960
		180.000	-.1800	-.1680	-.1990
		225.000	-.2130	-.2020	-.1910
		270.000	-.1940	-.1880	-.1860
MACH (2) = 2.000 BETAT (3) = -4.210					
PHI					
		.000	-.1860	-.1880	
		90.000	-.1930	-.1890	-.1880
		135.000	-.1950	-.1980	-.1980
		180.000	-.1410	-.1750	-.1990
		225.000	-.2070	-.2040	-.1940

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 O2A + S3 + T9 UPPER MPS NOZZLE
 (R0028)

SECTION (1) MPS NOZZLE		DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (3) = -4.210	X/LNF	.250
		PHI	.750
		270.000	-.1890
			-.1860
MACH (2) = 2.000	BETAT (4) = -.110	X/LNF	.250
		PHI	.750
		.000	-.1880
		90.000	-.1900
		135.000	-.1870
		180.000	-.1850
		225.000	-.1920
		270.000	-.1870
MACH (2) = 2.000	BETAT (5) = 3.990	X/LNF	.250
		PHI	.750
		.000	-.1990
		90.000	-.2180
		135.000	-.2150
		180.000	-.2080
		225.000	-.2210
		270.000	-.2070
MACH (2) = 2.000	BETAT (6) = 6.090	X/LNF	.250
		PHI	.750
		.000	-.1890
		90.000	-.1940
		135.000	-.1950
		180.000	-.1920
		225.000	-.1950
		270.000	-.1880
MACH (2) = 2.000	BETAT (7) = 8.110	X/LNF	.250
		PHI	.750
		.000	-.1920
		90.000	-.1970
		135.000	-.2070
		180.000	-.1980
		225.000	-.2110
		270.000	-.1940

DATE 21 SEP 75

TABLATED PRESSURE DATA - 1A98

AMES 97-707 1A9 02A + S3 + T9 OMS NOZZLE

(RBOE01) (24 MAY 75)

PARAMETRIC DATA

BETAT = .0000 ORBINC = .5000
 RUDDER = .0000 ELEVON = .0000
 RUDFLR = .0000

REFERENCE DATA

SREP = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0350 SCALE

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.555	ALPHAT(1) = -6.400	X/LNM	PHI	Y/LNM	Z/LNM
MACH (1) = 1.555	ALPHAT(2) = -6.350	.200	.400	.200	.400
		.150	.150	.150	.150
		.100	.100	.100	.100
MACH (1) = 1.555	ALPHAT(3) = -4.250	.200	.400	.200	.400
		.150	.150	.150	.150
		.100	.100	.100	.100
MACH (1) = 1.555	ALPHAT(4) = -2.190	.200	.400	.200	.400
		.150	.150	.150	.150
		.100	.100	.100	.100
MACH (1) = 1.555	ALPHAT(5) = -.120	.200	.400	.200	.400
		.150	.150	.150	.150
		.100	.100	.100	.100
MACH (1) = 1.555	ALPHAT(6) = 1.950	.200	.400	.200	.400
		.150	.150	.150	.150
		.100	.100	.100	.100
MACH (1) = 1.555	ALPHAT(7) = 4.010	.200	.400	.200	.400
		.150	.150	.150	.150
		.100	.100	.100	.100

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98
 AMES 97-7U7 1A9 ORA + S3 + T9 OMS NOZZLE

(RBOE11)

SECTION (1) OMS NOZZLE	DEPENDENT VARIABLE CP
MACH (1) = 1.555 ALPHAT(8) = 6.060	X/LNM .200 .400 PHI
	135.000 -.0690
	180.000 -.0390 -.1960
	225.000 -.2570
MACH (1) = 1.555 ALPHAT(9) = 8.130	X/LNM .200 .400 PHI
	135.000 -.0980
	180.000 -.0740 -.2150
	225.000 -.2480
MACH (2) = 2.000 ALPHAT(1) = -6.360	X/LNM .200 .400 PHI
	135.000 .3910
	180.000 .4550 .3520
	225.000 -.0630
MACH (2) = 2.000 ALPHAT(2) = -6.310	X/LNM .200 .400 PHI
	135.000 .3650
	180.000 .4340 .2920
	225.000 -.0680
MACH (2) = 2.000 ALPHAT(3) = -4.250	X/LNM .200 .400 PHI
	135.000 .3460
	180.000 .3980 .2410
	225.000 -.1070
MACH (2) = 2.000 ALPHAT(4) = -2.210	X/LNM .200 .400 PHI
	135.000 .3280
	180.000 .3660 .1970
	225.000 -.1230
MACH (2) = 2.000 ALPHAT(5) = -.160	X/LNM .200 .400 PHI
	135.000 .2960
	180.000 .3120 .1610
	225.000 -.1320
MACH (2) = 2.000 ALPHAT(6) = 1.890	X/LNM .200 .400 PHI
	135.000 .2430
	180.000 .2540 .1030
	225.000 -.1420

(RBCED:1)

TABULATED PRESSURE DATA - 1A98
AMES 97-757 1A9 OSA + S3 + T9 OMS NOZZLE

DATE 21 SEP 73

SECTION (1) OMS NOZZLE
DEPENDENT VARIABLE CP

MACH (2) = 2.000 ALPHAT (7) = 3.930

X/LNM	PHI	CP
.200	.1680	.400
.135.000	.1770	.0670
180.000	-.1510	
225.000		

MACH (2) = 2.000 ALPHAT (8) = 5.980

X/LNM	PHI	CP
.200	.1490	.0390
135.000	.1330	
180.000	-.1470	
225.000		

MACH (2) = 2.000 ALPHAT (9) = 8.020

X/LNM	PHI	CP
.200	.2030	.0170
135.000	.1470	
180.000	-.1460	
225.000		

AMES 97-717 1A9 ORA + S3 + T9 OMS NOZZLE

(RBOC02) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHAT = 8.0000 ORBINC = .9000
 RUDDER = .0000 ELEVON = .0000
 RUDDLR = .0000

PARAMETRIC DATA

SECTION (1) OMS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.140 X/LNM .200 .400
 PHI
 135.000 .1450
 180.000 .3090 -.0490
 225.000 -.2580

MACH (1) = 1.555 BETAT (2) = -5.100

X/LNM .200 .400
 PHI
 135.000 .0910
 180.000 .2770 -.0960
 225.000 -.2680

MACH (1) = 1.555 BETAT (3) = -3.050

X/LNM .200 .400
 PHI
 135.000 .0620
 180.000 .1590 -.1430
 225.000 -.2630

MACH (1) = 1.555 BETAT (4) = 5.110

X/LNM .200 .400
 PHI
 135.000 -.0770
 180.000 -.1860 -.2130
 225.000 -.2780

MACH (1) = 1.555 BETAT (5) = 7.140

X/LNM .200 .400
 PHI
 135.000 -.1090
 180.000 -.1230 -.2490
 225.000 -.2790

MACH (1) = 1.555 BETAT (6) = 9.190

X/LNM .200 .400
 PHI
 135.000 -.2480
 180.000 -.2470 -.2680
 225.000 -.2730

MACH (2) = 2.000 BETAT (1) = -6.320

X/LNM .200 .400
 PHI
 135.000 -.1390
 180.000 .0100 -.1020
 225.000 -.1990

AMES 97-707 1A9 O2A + S3 + T9 OMS NOZZLE

(RBC)(2)

SECTION (1) OMS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.270

X/LNM	PHI	CP
.200	.400	
135.000	-.0080	
180.000	.0930	-.0240
225.000	-.0940	

MACH (2) = 2.000 BETAT (3) = -4.210

X/LNM	PHI	CP
.200	.400	
135.000	.0570	
180.000	.2230	.1780
225.000	-.0720	

MACH (2) = 2.000 BETAT (4) = 3.990

X/LNM	PHI	CP
.200	.400	
135.000	.0610	
180.000	.1460	-.0780
225.000	-.1920	

MACH (2) = 2.000 BETAT (5) = 6.060

X/LNM	PHI	CP
.200	.400	
135.000	-.0230	
180.000	.0480	-.1430
225.000	-.2160	

MACH (2) = 2.000 BETAT (6) = 8.120

X/LNM	PHI	CP
.200	.400	
135.000	.1340	
180.000	-.0580	-.1740
225.000	-.2160	

DATE 21 SEP 72 TABULATED PRESSURE DATA - 1A98

AMES 97-757 1A9 ORA + S3 + T9 QMS NOZZLE

(RBOEHS) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.0480 INCHES YMRP = 1.1400 INCHES
 BREF = 39.0480 INCHES ZMRP = 1.1400 INCHES
 SCALE = .0300 SCALE

SECTION (1) QMS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.120
 X/LNM .200 .400
 PHI 135.000 .2560
 180.000 .3700 .0960
 225.000 -.2050

MACH (1) = 1.555 BETAT (2) = -5.170
 X/LNM .200 .400
 PHI 135.000 .2140
 180.000 .3010 -.0290
 225.000 -.2480

MACH (1) = 1.555 BETAT (3) = -3.050
 X/LNM .200 .400
 PHI 135.000 .1450
 180.000 .1650 -.1270
 225.000 -.2640

MACH (1) = 1.555 BETAT (4) = 5.080
 X/LNM .200 .400
 PHI 135.000 -.1640
 180.000 .0260 -.2030
 225.000 -.2710

MACH (1) = 1.555 BETAT (5) = 7.110
 X/LNM .200 .400
 PHI 135.000 -.1920
 180.000 -.0880 -.2430
 225.000 -.2750

MACH (1) = 1.555 BETAT (6) = 9.140
 X/LNM .200 .400
 PHI 135.000 -.2470
 180.000 -.2530 -.2630
 225.000 -.2690

MACH (2) = 2.140 BETAT (1) = -6.900
 X/LNM .200 .400
 PHI 135.000 -.1600
 180.000 .0310 -.1070
 225.000 .0320

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDELE = .000

(RECEIVED)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B
 AMES 97-707 1A9 02A + S3 + T9 OMS NOZZLE

SECTION (1) OMS NOZZLE		DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (2) = -6.290	X/LNM	.200
		PHI	.400
		135.000	.0310
		180.000	.0640
		225.000	.2490
MACH (2) = 2.000	BETAT (3) = -4.200	X/LNM	.200
		PHI	.400
		135.000	.1410
		180.000	.2900
		225.000	-.0520
MACH (2) = 2.000	BETAT (4) = 3.970	X/LNM	.200
		PHI	.400
		135.000	.0070
		180.000	.1710
		225.000	-.0790
MACH (2) = 2.000	BETAT (5) = 6.030	X/LNM	.200
		PHI	.400
		135.000	-.0110
		180.000	.0550
		225.000	-.1280
MACH (2) = 2.000	BETAT (6) = 8.080	X/LNM	.200
		PHI	.400
		135.000	.0580
		180.000	-.1190
		225.000	-.1960

(RBCU) (24 MAY 73)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B
 AMES 97-717 1A9 OEA + S3 + T9 OMS NOZZLE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5310 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE	MACH (1) = 1.555	BETAT (1) = -7.080	X/LNM	PHI
			.200	.400
			135.000	.3890
			180.000	.4130
			225.000	-.2020
			X/LNM	.200
			PHI	.400
			135.000	.2890
			180.000	.3150
			225.000	-.2480
			X/LNM	.200
			PHI	.400
			135.000	.1840
			180.000	.1870
			225.000	-.1170
			X/LNM	.200
			PHI	.400
			135.000	-.0680
			180.000	.0170
			225.000	-.2080
			X/LNM	.200
			PHI	.400
			135.000	-.1880
			180.000	-.0570
			225.000	-.2370
			X/LNM	.200
			PHI	.400
			135.000	-.2280
			180.000	-.2030
			225.000	-.2670
			X/LNM	.200
			PHI	.400
			135.000	.0840
			180.000	.0180
			225.000	.0980
			X/LNM	.200
			PHI	.400
			135.000	.0840
			180.000	.0180
			225.000	.0980

MACH (1) = 1.555 BETAT (2) = -5.070

MACH (1) = 1.555 BETAT (3) = -3.040

MACH (1) = 1.555 BETAT (4) = 5.060

MACH (1) = 1.555 BETAT (5) = 7.080

MACH (1) = 1.555 BETAT (6) = 9.100

MACH (2) = 2.000 BETAT (1) = -8.270

(RBOELM)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B
 AMES 97-757 1A9 OZA + S3 + T9 OMS NOZZLE

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.240

X/LNM	PHI	CP
.200	.1310	.400
.310	.1960	.5100
.430	.2630	

MACH (2) = 2.000 BETAT (3) = -4.200

X/LNM	PHI	CP
.200	.0710	.400
.310	.1110	.5910
.430	-.0370	

MACH (2) = 2.000 BETAT (4) = 3.950

X/LNM	PHI	CP
.200	.0240	.400
.310	.1970	-.0730
.430	-.1840	

MACH (2) = 2.000 BETAT (5) = 5.990

X/LNM	PHI	CP
.200	-.0400	.400
.310	.0740	-.1200
.430	-.2040	

MACH (2) = 2.000 BETAT (6) = 8.030

X/LNM	PHI	CP
.200	-.0670	.400
.310	-.0500	-.1770
.430	-.2070	

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

AMES 97-717 1A9 OR2 + S3 + T9 OMS NOZZLE

(RBOEUS) (24 MAY 73)

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDDLR = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XREF = 28.5300 INCHES
 LREF = 39.8490 INCHES YREF = .0000 INCHES
 BREF = 39.8490 INCHES ZREF = .0000 INCHES
 SCALE = .0010 SCALE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -7.100	X/LNM	PHI
		.200	.400
		.4350	
		.4350	.2750
		-.1720	
MACH (1) = 1.555	BETAT (2) = -5.070	X/LNM	PHI
		.200	.400
		.3800	
		.3710	.0460
		-.2380	
MACH (1) = 1.555	BETAT (3) = -3.050	X/LNM	PHI
		.200	.400
		.2510	
		.2550	-.1640
		-.2560	
MACH (1) = 1.555	BETAT (4) = 5.050	X/LNM	PHI
		.200	.400
		-.0770	
		.0290	-.2080
		-.2720	
MACH (1) = 1.555	BETAT (5) = 7.070	X/LNM	PHI
		.200	.400
		-.1980	
		-.0430	-.2300
		-.2650	
MACH (1) = 1.555	BETAT (6) = 9.090	X/LNM	PHI
		.200	.400
		-.2420	
		-.1860	-.2620
		-.2640	
MACH (2) = 2.000	BETAT (1) = -6.280	X/LNM	PHI
		.200	.400
		.1160	
		.1370	.3760
		.1800	

DATE 21 SEP 79 TABULATED PRESSURE DATA - 1A98

AMES 97-737 1A9 O2A + S3 + T9 OMS NOZZLE (50E15)

SECTION (1) OMS NOZZLE	DEPENDENT VARIABLE CP	
MACH (2) = 2.000 BETAT (2) = -6.250	X/LNM	.200 .400
	PHI	
	135.000	.1970
	180.000	.2710
	225.000	.5650
MACH (2) = 2.000 BETAT (3) = -4.140	X/LNM	.200 .400
	PHI	
	135.000	.2880
	180.000	.3370
	225.000	-.4210
MACH (2) = 2.000 BETAT (4) = 3.940	X/LNM	.200 .400
	PHI	
	135.000	.0080
	180.000	.2110
	225.000	-.0710
MACH (2) = 2.000 BETAT (5) = 5.980	X/LNM	.200 .400
	PHI	
	135.000	-.0630
	180.000	.0640
	225.000	-.1210
MACH (2) = 2.000 BETAT (6) = 8.020	X/LNM	.200 .400
	PHI	
	135.000	-.1260
	180.000	-.0420
	225.000	-.1690

AVES 97-707 1A9 02A + S3 + T9 QMS NOZZLE

(RSDEN) : 24 MAY 73

REFERENCE DATA

SREF = 2.4210 SQ. FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0010 SCALE

PARAMETRIC DATA

ALPHAT = .0000 CRBINC = .5000
 RUDDER = .0000 ELEVON = .0000
 RUDDLR = .0000

SECTION (1) QMS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -7.1000	X/LNM	PHI	PHI
		.200	.400	.400
		135.000	.5400	.3190
		180.000	.4620	.3190
		225.000	-.1700	.3190
MACH (1) = 1.555	BETAT (2) = -5.0600	X/LNM	PHI	PHI
		.200	.400	.400
		135.000	.4710	.1300
		180.000	.4130	.1300
		225.000	-.2210	.1300
MACH (1) = 1.555	BETAT (3) = -3.0600	X/LNM	PHI	PHI
		.200	.400	.400
		135.000	.3870	-.0370
		180.000	.3350	-.0370
		225.000	-.2560	-.0370
MACH (1) = 1.555	BETAT (4) = 5.0600	X/LNM	PHI	PHI
		.200	.400	.400
		135.000	-.0880	-.2070
		180.000	.0340	-.2070
		225.000	-.2710	-.2070
MACH (1) = 1.555	BETAT (5) = 7.0600	X/LNM	PHI	PHI
		.200	.400	.400
		135.000	-.2190	-.2310
		180.000	-.0420	-.2310
		225.000	-.2620	-.2310
MACH (1) = 1.555	BETAT (6) = 9.0600	X/LNM	PHI	PHI
		.200	.400	.400
		135.000	-.2490	-.2550
		180.000	-.1710	-.2550
		225.000	-.2550	-.2550
MACH (2) = 2.000	BETAT (1) = -9.2900	X/LNM	PHI	PHI
		.200	.400	.400
		135.000	.2160	.4280
		180.000	.2120	.4280
		225.000	.0740	.4280

(RBOE)6

DATE 21 SEP 79
 TABULATED PRESSURE DATA - 1A98
 AMES 97-707 IAS OEA + S3 + T9 OMS NOZZLE

SECTION (1) OMS NOZZLE	DEPENDENT VARIABLE CP	
MACH (2) = 2.000 BETAT (2) = -6.250	X/LNM	.200 .400
	PHI	
	135.000	.2770
	180.000	.3500
	225.000	.0310
MACH (2) = 2.000 BETAT (3) = -1.130	X/LNM	.200 .400
	PHI	
	135.000	.2780
	180.000	.3240
	225.000	-.1430
MACH (2) = 2.000 BETAT (4) = 3.950	X/LNM	.200 .400
	PHI	
	135.000	-.1240
	180.000	.2070
	225.000	-.1720
MACH (2) = 2.000 BETAT (5) = 5.980	X/LNM	.200 .400
	PHI	
	135.000	-.1630
	180.000	.0610
	225.000	-.1160

DATE 21 SEP 73

ADULTATED PRESSURE DATA - 1A9B

AXES 97-717 1A9 OGA + S3 + T9 OMS NOZZLE

(RBC017) (24 MAY 73)

PARAMETRIC DATA

ALPHAT = -2.1000
 RUDDER = .1000
 RUDFLR = .1000
 ORBIAC = .5000
 ELEVON = .1000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE	MACH (1) = 1.555	BETAT (1) = -7.110	X/LNM	PHI
			.200	.400
			135.1000	.6220
			180.1000	.4950
			225.1000	-.1460
			X/LNM	.200
			PHI	.400
			135.1000	.5740
			180.1000	.4670
			225.1000	-.1940
			X/LNM	.200
			PHI	.400
			135.1000	.4310
			180.1000	.3910
			225.1000	-.2500
			X/LNM	.200
			PHI	.400
			135.1000	-.1690
			180.1000	.1020
			225.1000	-.2640
			X/LNM	.200
			PHI	.400
			135.1000	.2100
			180.1000	-.0310
			225.1000	-.2550
			X/LNM	.200
			PHI	.400
			135.1000	-.2370
			180.1000	-.1990
			225.1000	-.2400
			X/LNM	.200
			PHI	.400
			135.1000	.2950
			180.1000	.3140
			225.1000	.1680

MACH (2) = 2.1000 BETAT (1) = -8.310

MACH (1) = 1.555 BETAT (6) = 9.180

MACH (1) = 1.555 BETAT (5) = 7.160

MACH (1) = 1.555 BETAT (4) = 5.040

MACH (1) = 1.555 BETAT (3) = -3.070

MACH (1) = 1.555 BETAT (2) = -5.160

(RBC037)

DATE 21 SEP 79 TABULATED PRESSURE DATA - 1A9B
 AMES 97-707 1A9 OCA + S3 + T9 OMS NOZZLE

SECTION (1) OMS NOZZLE	DEPENDENT VARIABLE CP	
MACH (2) = 2.000 BETAT (2) = -6.260	X/LNM	.200 .400
	PHI	
	135.000	.3320
	180.000	.4160
	225.000	.0300
MACH (2) = 2.000 BETAT (3) = -4.230	X/LNM	.200 .400
	PHI	
	135.000	.4380
	180.000	.3970
	225.000	.0290
MACH (2) = 2.000 BETAT (4) = 3.940	X/LNM	.200 .400
	PHI	
	135.000	-.0390
	180.000	.2050
	225.000	-.1670
MACH (2) = 2.000 BETAT (5) = 5.970	X/LNM	.200 .400
	PHI	
	135.000	-.1150
	180.000	.1000
	225.000	-.0990
MACH (2) = 2.000 BETAT (6) = 8.010	X/LNM	.200 .400
	PHI	
	135.000	-.1230
	180.000	.0380
	225.000	-.1340

(RBOEUB) (24 MAY 73)

TABULATED PRESSURE DATA - IA98
 AMES 97-707 IA9 OEA + S3 + T9 OMS NOZZLE

PARAMETRIC DATA

ALPHAT = -4.0000 ORBINC = .5000
 RUDDER = .0000 ELEVON = .0000
 RUOPLR = .0000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

SECTION (1) OMS NOZZLE

MACH (1) = 1.555 BETAT (1) = -8.1300

DEPENDENT VARIABLE CP

X/LNM	PHI	CP
.200	.400	.400
.700	.700	.6290
.980	.980	.6290
.9810	.9810	.6290

MACH (1) = 1.555 BETAT (2) = -6.1500

X/LNM	PHI	CP
.200	.400	.400
.680	.680	.4480
.9270	.9270	.4480
.9340	.9340	.4480

MACH (1) = 1.555 BETAT (3) = -3.0700

X/LNM	PHI	CP
.200	.400	.400
.4810	.4810	.0580
.4380	.4380	.0580
.2370	.2370	.0580

MACH (1) = 1.555 BETAT (4) = 5.0300

X/LNM	PHI	CP
.200	.400	.400
.1520	.1520	-.2040
.0210	.0210	-.2040
.2540	.2540	-.2040

MACH (1) = 1.555 BETAT (5) = 7.0500

X/LNM	PHI	CP
.200	.400	.400
.2080	.2080	-.2150
.0280	.0280	-.2150
.2440	.2440	-.2150

MACH (1) = 1.555 BETAT (6) = 9.0700

X/LNM	PHI	CP
.200	.400	.400
.2300	.2300	-.2340
.1640	.1640	-.2340
.2390	.2390	-.2340

MACH (2) = 2.020 BETAT (1) = -8.3100

X/LNM	PHI	CP
.200	.400	.400
.3570	.3570	.5550
.4090	.4090	.5550
.0540	.0540	.5550

(RBOE:RS)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98
AMES 97-707 1A9 OEA + S3 + T9 OMS NOZZLE

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.270

X/LNM	.200	.400
PHI		
135.000	.4220	
180.000	.4630	.6680
225.000	.0330	

MACH (2) = 2.000 BETAT (3) = -4.230

X/LNM	.200	.400
PHI		
135.000	.5120	
180.000	.4140	.6980
225.000	.0410	

MACH (2) = 2.000 BETAT (4) = 3.920

X/LNM	.200	.400
PHI		
135.000	-.0220	
180.000	.2440	-.0140
225.000	-.1590	

MACH (2) = 2.000 BETAT (5) = 5.960

X/LNM	.200	.400
PHI		
135.000	-.1100	
180.000	.1410	-.0740
225.000	-.1830	

MACH (2) = 2.000 BETAT (6) = 6.010

X/LNM	.200	.400
PHI		
135.000	-.1110	
180.000	.0470	-.1090
225.000	-.1960	

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

AMES 97-717 1A9 O2A + S3 + T9 OMS NOZZLE

(RBCCEL) 124 MAY 73

PARAMETRIC DATA

XREF = 2.4210 SQ.FT. ORBINC = .510
 LREF = 35.8490 INCHES YMRP = .16000 INCHES
 BREF = 39.8490 INCHES ZMRP = .16000 INCHES
 SCALE = .10300 SCALE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 35.8490 INCHES YMRP = .16000 INCHES
 BREF = 39.8490 INCHES ZMRP = .16000 INCHES
 SCALE = .10300 SCALE

SECTION (1) OMS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.160	X/LNM	PHI
		.200	.400
		135.1000	.7770
		180.1000	.5090
		225.1000	-.0580
MACH (1) = 1.555	BETAT (2) = -6.170	X/LNM	PHI
		.200	.400
		135.1000	.7710
		180.1000	.5490
		225.1000	-.1160
MACH (1) = 1.555	BETAT (3) = -4.180	X/LNM	PHI
		.200	.400
		135.1000	.6560
		180.1000	.5270
		225.1000	-.1920
MACH (1) = 1.555	BETAT (4) = 3.640	X/LNM	PHI
		.200	.400
		135.1000	-.1920
		180.1000	-.0390
		225.1000	-.2420
MACH (1) = 1.555	BETAT (5) = 5.690	X/LNM	PHI
		.200	.400
		135.1000	-.1740
		180.1000	.0260
		225.1000	-.2460
MACH (1) = 1.555	BETAT (6) = 7.740	X/LNM	PHI
		.200	.400
		135.1000	-.2220
		180.1000	-.0920
		225.1000	-.2320
MACH (2) = 2.100	BETAT (1) = -8.340	X/LNM	PHI
		.200	.400
		135.1000	-.4110
		180.1000	.5270
		225.1000	.1640

AMES 97-757 IA9 O2A + S3 + T9 OMS NOZZLE

(RBCE19)

SECTION (1) OMS NOZZLE

DEPENDENT VARIABLE C_p

MACH (2) = 2.000	BETAT (2) = -6.300	X/LNH	PHI	X/LNH	PHI
		.200	.400		
		135.000	.5300		
		180.000	.4760		.7310
		225.000	.0390		
MACH (2) = 2.000	BETAT (3) = -4.250	X/LNH	PHI	X/LNH	PHI
		.200	.400		
		135.000	.5670		
		180.000	.4280		.7650
		225.000	.0590		
MACH (2) = 2.000	BETAT (4) = 3.930	X/LNH	PHI	X/LNH	PHI
		.200	.400		
		135.000	.4050		
		180.000	.2860		.0310
		225.000	-.1440		
MACH (2) = 2.000	BETAT (5) = 8.020	X/LNH	PHI	X/LNH	PHI
		.200	.400		
		135.000	-.0890		
		180.000	.1160		-.0630
		225.000	-.1870		

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHAT = -8.1500 ORBITALC = .9000
 RUDDER = .0000 ELEVON = .0000
 RUDDFLR = .0000

PARAMETRIC DATA

SECTION (1) OMS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.210

X/LNM	PHI	X/LNM	PHI
.200	.400	.200	.400
.6070	.8070	.6070	.8070
.5070	.8620	.5070	.8620
-.0320		-.0320	

MACH (1) = 1.555 BETAT (2) = -6.210

X/LNM	PHI	X/LNM	PHI
.200	.400	.200	.400
.7920		.7920	
.5530	.6140	.5530	.6140
-.0720		-.0720	

MACH (1) = 1.555 BETAT (3) = -4.220

X/LNM	PHI	X/LNM	PHI
.200	.400	.200	.400
.7020		.7020	
.5660	.2760	.5660	.2760
-.1720		-.1720	

MACH (1) = 1.555 BETAT (4) = 3.650

X/LNM	PHI	X/LNM	PHI
.200	.400	.200	.400
.1910		.1910	
-.0150	-.2100	-.0150	-.2100
-.2380		-.2380	

MACH (1) = 1.555 BETAT (5) = 5.710

X/LNM	PHI	X/LNM	PHI
.200	.400	.200	.400
.1710		.1710	
.0420	-.1940	.0420	-.1940
-.2390		-.2390	

MACH (1) = 1.555 BETAT (6) = 7.770

X/LNM	PHI	X/LNM	PHI
.200	.400	.200	.400
.2180		.2180	
-.0850	-.2110	-.0850	-.2110
-.2250		-.2250	

MACH (2) = 2.000 BETAT (1) = -8.390

X/LNM	PHI	X/LNM	PHI
.200	.400	.200	.400
.4440		.4440	
.5970	.7390	.5970	.7390
.0580		.0580	

(RCE11)

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 C2A + S3 + T9 OMS NOZZLE

SECTION (1) OMS NOZZLE		DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (2) = -6.330	X/LNM	.200
		PHI	.400
		135.000	.5970
		180.000	.4770
		225.000	.0440
MACH (2) = 2.000	BETAT (3) = -4.280	X/LNM	.200
		PHI	.400
		135.000	.5790
		180.000	.4330
		225.000	.0660
MACH (2) = 2.000	BETAT (4) = -.170	X/LNM	.200
		PHI	.400
		135.000	.3640
		180.000	.4450
		225.000	-.0720
MACH (2) = 2.000	BETAT (5) = 3.940	X/LNM	.200
		PHI	.400
		135.000	.0330
		180.000	.3090
		225.000	-.1390
MACH (2) = 2.000	BETAT (6) = 5.980	X/LNM	.200
		PHI	.400
		135.000	-.0710
		180.000	.2430
		225.000	-.0040
MACH (2) = 2.000	BETAT (7) = 8.050	X/LNM	.200
		PHI	.400
		135.000	-.0740
		180.000	.1950
		225.000	-.1730

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

AMES 97-707 1A9 O2A + S3 + T9 OMS NOZZLE

(RBOE11) (24 MAY 73)

PARAMETRIC DATA

ALPHAT = -8.0000 ORBINC = .5000
 RUDDER = -15.0000 ELEVON = .5000
 RUDFLR = .0000

REFERENCE DATA

SRIF = 2.4210 SQ. FT. YMRP = 28.5310 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300, SCALE

SECTION (1) OMS NOZZLE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.420	X/LNM	PHI	PHI
		.200	.400	.400
		135.000	.7980	
		180.000	.4890	.8920
		225.000	-.0440	
MACH (1) = 1.555	BETAT (2) = -6.350	X/LNM	PHI	PHI
		.200	.400	.400
		135.000	.7840	
		180.000	.5350	.6810
		225.000	-.1660	
MACH (1) = 1.555	BETAT (3) = -4.310	X/LNM	PHI	PHI
		.200	.400	.400
		135.000	.7240	
		180.000	.5610	.3210
		225.000	-.1640	
MACH (1) = 1.555	BETAT (4) = -.180	X/LNM	PHI	PHI
		.200	.400	.400
		135.000	.1990	
		180.000	-.4100	-.0380
		225.000	-.2580	
MACH (1) = 1.555	BETAT (5) = 3.940	X/LNM	PHI	PHI
		.200	.400	.400
		135.000	-.2140	
		180.000	-.0250	-.2180
		225.000	-.2450	
MACH (1) = 1.555	BETAT (6) = 6.000	X/LNM	PHI	PHI
		.200	.400	.400
		135.000	-.1880	
		180.000	.0350	-.1990
		225.000	-.2490	
MACH (1) = 1.555	BETAT (7) = 8.060	X/LNM	PHI	PHI
		.200	.400	.400
		135.000	-.2300	
		180.000	-.0920	-.2220
		225.000	-.2370	

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B
 AVES 97-707 1A9 O2A + S3 + T9 OMS NOZZLE

(RBOE11)

SECTION (1) OMS NOZZLE	DEPENDENT VARIABLE CP	
MACH (2) = 2.000 BETAT (1) = -6.390	X/LNM	.200 .400
	PHI	
	135.000	.4400
	180.000	.5690
	225.000	.7380
MACH (2) = 2.000 BETAT (2) = -6.340	X/LNM	.200 .400
	PHI	
	135.000	.6120
	180.000	.4790
	225.000	.7250
MACH (2) = 2.000 BETAT (3) = -4.290	X/LNM	.200 .400
	PHI	
	135.000	.5630
	180.000	.4280
	225.000	.6040
MACH (2) = 2.000 BETAT (4) = -.180	X/LNM	.200 .400
	PHI	
	135.000	.3640
	180.000	.4480
	225.000	.3600
MACH (2) = 2.000 BETAT (5) = 3.930	X/LNM	.200 .400
	PHI	
	135.000	.0140
	180.000	.3250
	225.000	.0530
MACH (2) = 2.000 BETAT (6) = 5.980	X/LNM	.200 .400
	PHI	
	135.000	-.0650
	180.000	.2540
	225.000	.0070
MACH (2) = 2.000 BETAT (7) = 8.040	X/LNM	.200 .400
	PHI	
	135.000	-.1680
	180.000	.1470
	225.000	-.0330

DATE 21 SEP 73
 TABULATED PRESSURE DATA - IA98
 AMES 97-707 1A9 O2A + S3 + T9 OMS NOZZLE

(RBOE12) (24 MAY 73)

PARAMETRIC DATA

ALPHAT = -4.0000 CRBINC = .5000
 RUDDER = -15.0000 ELEVON = .0400
 RUDFLR = .0000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.350	X/LNM	PHI	CP
				.400
		135.000		.6740
		180.000		.4730
		225.000		-.0700
MACH (1) = 1.555	BETAT (2) = -6.310	X/LNM	PHI	CP
				.400
		135.000		.6920
		180.000		.5200
		225.000		-.1210
MACH (1) = 1.555	BETAT (3) = -4.260	X/LNM	PHI	CP
				.400
		135.000		.6340
		180.000		.5030
		225.000		-.1990
MACH (1) = 1.555	BETAT (4) = -.170	X/LNM	PHI	CP
				.400
		135.000		.1320
		180.000		.2750
		225.000		-.1080
MACH (1) = 1.555	BETAT (5) = 3.950	X/LNM	PHI	CP
				.400
		135.000		-.1530
		180.000		-.0660
		225.000		-.2400
MACH (1) = 1.555	BETAT (6) = 5.980	X/LNM	PHI	CP
				.400
		135.000		-.1720
		180.000		.0230
		225.000		-.2080
MACH (1) = 1.555	BETAT (7) = 8.020	X/LNM	PHI	CP
				.400
		135.000		-.2330
		180.000		-.1020
		225.000		-.2340

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

AMES 97-707 IAS O2A + S3 + T9 OMS NOZZLE

(RBOE12)

SECTION (1) OMS NOZZLE	DEPENDENT VARIABLE CF	
MACH (2) = 2.000 BETAT (1) = -8.320	X/LNM	.200 .400
	PHI	.3420 .5590
	135.000	.4080
	180.000	.5520
	225.000	
MACH (2) = 2.000 BETAT (2) = -6.280	X/LNM	.200 .400
	PHI	.4020 .6340
	135.000	.4020
	180.000	.4490
	225.000	.0230
MACH (2) = 2.000 BETAT (3) = -4.240	X/LNM	.200 .400
	PHI	.4990 .7020
	135.000	.4120
	180.000	.0410
	225.000	
MACH (2) = 2.000 BETAT (4) = -2.170	X/LNM	.200 .400
	PHI	.3450 .2560
	135.000	.3910
	180.000	.2560
	225.000	-.1070
MACH (2) = 2.000 BETAT (5) = 3.920	X/LNM	.200 .400
	PHI	-.0270 -.0490
	135.000	.2410
	180.000	-.0490
	225.000	-.1600
MACH (2) = 2.000 BETAT (6) = 5.980	X/LNM	.200 .400
	PHI	-.1110
	135.000	.1490
	180.000	-.0720
	225.000	-.1610
MACH (2) = 2.000 BETAT (7) = 8.010	X/LNM	.200 .400
	PHI	-.0960
	135.000	.0560
	180.000	-.1000
	225.000	-.1940

DATE 21 SEP 72 TABULATED PRESSURE DATA - 1A98

(RBOE13) (24 MAY 72)

AMES 97-717 1A9 O2A + S3 + T9 OMS NOZZLE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 OSBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUOFLR = .000

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE	MACH (1) = 1.555	BETAT (1) = -8.310	X/LNM	PHI
			.200	.400
			135.000	.5070
			180.000	.4390
			225.000	-.1060
MACH (1) = 1.555	BETAT (2) = -6.280	X/LNM	.200	.400
		PHI	.5230	
		135.000	.4990	.3140
		180.000	-.1780	
		225.000	-.2310	
MACH (1) = 1.555	BETAT (3) = -4.240	X/LNM	.200	.400
		PHI	.4660	
		135.000	.3610	.0680
		180.000	-.2310	
		225.000	-.2740	
MACH (1) = 1.555	BETAT (4) = -.140	X/LNM	.200	.400
		PHI	.0890	
		135.000	.1740	-.1400
		180.000	-.2740	
		225.000	-.2700	
MACH (1) = 1.555	BETAT (5) = 3.940	X/LNM	.200	.400
		PHI	-.0200	
		135.000	.0600	-.1930
		180.000	-.2700	
		225.000	-.2700	
MACH (1) = 1.555	BETAT (6) = 5.990	X/LNM	.200	.400
		PHI	-.1390	
		135.000	.0340	-.2050
		180.000	-.2740	
		225.000	-.2740	
MACH (1) = 1.555	BETAT (7) = 8.030	X/LNM	.200	.400
		PHI	-.2340	
		135.000	-.0780	-.2460
		180.000	-.2650	
		225.000	-.2650	

DATE 21 SEP 70 TABULATED PRESSURE DATA - 1A9B
 AMES 97-707 1A9 ORA + S3 + T9 OMS NOZZLE

(R0CE13)

SECTION (1) OMS NOZZLE		DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (1) = -0.300	X/LNM	.200 .400
		PHI	
		135.000	.2090
		180.000	.2120
		225.000	.0760
MACH (2) = 2.000	BETAT (2) = -0.260	X/LNM	.200 .400
		PHI	
		135.000	.2570
		180.000	.3280
		225.000	.1670
MACH (2) = 2.000	BETAT (3) = -4.220	X/LNM	.200 .400
		PHI	
		135.000	.3490
		180.000	.3470
		225.000	-.0160
MACH (2) = 2.000	BETAT (4) = -1.40	X/LNM	.200 .400
		PHI	
		135.000	.2670
		180.000	.3110
		225.000	-.1370
MACH (2) = 2.000	BETAT (5) = 3.900	X/LNM	.200 .400
		PHI	
		135.000	-.0230
		180.000	.1690
		225.000	-.1730
MACH (2) = 2.000	BETAT (6) = 5.900	X/LNM	.200 .400
		PHI	
		135.000	-.0960
		180.000	.0550
		225.000	-.1930
MACH (2) = 2.000	BETAT (7) = 6.120	X/LNM	.200 .400
		PHI	
		135.000	-.1290
		180.000	-.0490
		225.000	-.1940

(RBOE14) (24 MAY 73)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B
 A ANES 97-707 1A9 OEA + S3 + T9 OMS NOZZLE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDELRL = .000

REFERENCE DATA

SREF = 2.4210 90.FT. YMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE	X/LNM	PHI	X/LNM	PHI
MACH (1) = 1.555 BETAT (1) = -8.300	.200	.400	.200	.400
	135.000	.3170	180.000	.3580
	180.000	.7870	225.000	-.1190
	225.000	-.1190		
MACH (1) = 1.555 BETAT (2) = -6.260	.200	.400	.200	.400
	135.000	.2950	180.000	.1890
	180.000	.3680	225.000	-.2070
	225.000	-.2070		
MACH (1) = 1.555 BETAT (3) = -4.220	.200	.400	.200	.400
	135.000	.2900	180.000	-.0578
	180.000	.2780	225.000	-.2670
	225.000	-.2670		
MACH (1) = 1.555 BETAT (4) = -.120	.200	.400	.200	.400
	135.000	.0000	180.000	-.1980
	180.000	.0450	225.000	-.2670
	225.000	-.2670		
MACH (1) = 1.555 BETAT (5) = 3.950	.200	.400	.200	.400
	135.000	-.0228	180.000	-.2060
	180.000	.0470	225.000	-.2790
	225.000	-.2790		
MACH (1) = 1.555 BETAT (6) = 6.000	.200	.400	.200	.400
	135.000	-.1240	180.000	-.2160
	180.000	.0160	225.000	-.2790
	225.000	-.2790		
MACH (1) = 1.555 BETAT (7) = 6.000	.200	.400	.200	.400
	135.000	-.2270	180.000	-.0980
	180.000	-.0980	225.000	-.2760
	225.000	-.2760		

(RBOE14)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98
 ANES 97-707 1A9 O2A + S3 + T9 OMS NOZZLE

SECTION (3) OMS NOZZLE DEPENDENT VARIABLE CF

MACH (2) = 2.000	BETAT (1) = -8.295	X/LNM	PHI
		.200	.400
		.0270	.0990
		.0010	.0990
		.0990	
MACH (2) = 2.000	BETAT (2) = -6.250	X/LNM	PHI
		.200	.400
		.1260	.4970
		.1760	
		.0420	
MACH (2) = 2.000	BETAT (3) = -4.200	X/LNM	PHI
		.200	.400
		.2130	.3070
		.2980	
		-.0400	
MACH (2) = 2.000	BETAT (4) = -.130	X/LNM	PHI
		.200	.400
		.1810	.0750
		.1790	
		-.1550	
MACH (2) = 2.000	BETAT (5) = 3.950	X/LNM	PHI
		.200	.400
		.0090	
		.1950	-.0760
		-.1680	
MACH (2) = 2.000	BETAT (6) = 5.980	X/LNM	PHI
		.200	.400
		-.0390	
		.0440	-.1270
		-.1980	
MACH (2) = 2.000	BETAT (7) = 6.040	X/LNM	PHI
		.200	.400
		-.1630	
		-.1680	-.1690
		-.2040	

DATE 21 SEP 79
 CALCULATED PRESSURE DATA - 1A99
 AVES 97-707 1A9 OEA + S3 + T9 OMS NOZZLE

(RBOE15) (24 MAY 73)

PARAMETRIC DATA

ALPHAT = 6.1933 ORBINC = .500
 RUDDER = -15.1444 ELEVON = .000
 RUOFLR = .0000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LRREF = 39.6490 INCHES YMRP = .0420 INCHES
 BRREF = 39.6490 INCHES ZMRP = .0420 INCHES
 SCALE = .03000 SCALE

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE
 MACH (1) = 1.555 BETAT (1) = -6.320
 X/LNM .200 .400
 PHI
 135.000 .2140
 180.000 .3460 .2980
 225.000 -.1570

MACH (1) = 1.555 BETAT (2) = -6.280
 X/LNM .200 .400
 PHI
 135.000 .2780
 180.000 .3750 .0650
 225.000 -.2180

MACH (1) = 1.555 BETAT (3) = -4.230
 X/LNM .200 .400
 PHI
 135.000 .1750
 180.000 .2710 -.0400
 225.000 -.2640

MACH (1) = 1.555 BETAT (4) = 7.120
 X/LNM .200 .400
 PHI
 135.000 -.0430
 180.000 -.0460 -.1950
 225.000 -.2680

MACH (1) = 1.555 BETAT (5) = 3.970
 X/LNM .200 .400
 PHI
 135.000 -.0050
 180.000 .0640 -.1880
 225.000 -.2760

MACH (1) = 1.555 BETAT (6) = 6.030
 X/LNM .200 .400
 PHI
 135.000 -.1260
 180.000 -.0140 -.2200
 225.000 -.2790

MACH (1) = 1.555 BETAT (7) = 6.180
 X/LNM .200 .400
 PHI
 135.000 -.2360
 180.000 -.1660 -.2680
 225.000 -.2750

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98
 AXES 97-757 1A9 ORA + S3 + T9 OMS NOZZLE

(RBOE15)

SECTION (1) OMS NOZZLE		DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (1) = -6.260	X/LNM	.200
		PHI	.400
		135.000	.0430
		180.000	.0480
		225.000	.0390
MACH (2) = 2.000	BETAT (2) = -4.210	X/LNM	.200
		PHI	.400
		135.000	.1410
		180.000	.2780
		225.000	-.0360
MACH (2) = 2.000	BETAT (3) = -.130	X/LNM	.200
		PHI	.400
		35.000	.1380
		180.000	.1290
		225.000	-.1480
MACH (2) = 2.000	BETAT (4) = 3.970	X/LNM	.200
		PHI	.400
		135.000	.0210
		180.000	.1540
		225.000	-.1860
MACH (2) = 2.000	BETAT (5) = 6.020	X/LNM	.200
		PHI	.400
		135.000	-.0230
		180.000	.0530
		225.000	-.1300
MACH (2) = 2.000	BETAT (6) = 8.070	X/LNM	.200
		PHI	.400
		135.000	.0730
		180.000	-.1170
		225.000	-.1920

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

AMES 97-757 1A9 O2A + S3 + T9 OMS NOZZLE

(RB0E16) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0310 SCALE

PARAMETRIC DATA

ALPHAT = 8.0000 ORBINC = .5000
 RUDDER = -15.0000 ELEVON = .0000
 RUDDFLR = .0000

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.350	X/LNM	PHI	CP
MACH (1) = 1.555	BETAT (2) = -6.290	X/LNM	.200	.400
		PHI	.1440	.0170
			.2970	-.2260
MACH (1) = 1.555	BETAT (3) = -4.240	X/LNM	.200	.400
		PHI	.1640	-.0610
			.3060	-.2630
MACH (1) = 1.555	BETAT (4) = -.110	X/LNM	.200	.400
		PHI	.1140	-.0710
			.2620	-.2630
MACH (1) = 1.555	BETAT (5) = 4.000	X/LNM	.200	.400
		PHI	-.0560	-.2140
			-.0320	-.2630
MACH (1) = 1.555	BETAT (6) = 6.060	X/LNM	.200	.400
		PHI	-.0180	-.1920
			.0320	-.2630
MACH (1) = 1.555	BETAT (7) = 8.120	X/LNM	.200	.400
		PHI	-.1270	-.2260
			-.0030	-.2630

(RBOE16)

DATE 23 SEP 75 TABULATED PRESSURE DATA - 1A9B
 AMES 97-757 1A9 OSA + S3 + T9 OMS NOZZLE

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -0.340
 X/LNM .200 .400
 PHI
 135.000 .0000
 180.000 .0000
 225.000 .0000

MACH (2) = 2.000 BETAT (2) = -6.275
 X/LNM .250 .400
 PHI
 135.000 -.0320
 180.000 .0800
 225.000 -.1010

MACH (2) = 2.000 BETAT (3) = -4.220
 X/LNM .200 .400
 PHI
 135.000 .0690
 180.000 .2090
 225.000 -.0610

MACH (2) = 2.000 BETAT (4) = -.120
 X/LNM .200 .400
 PHI
 135.000 .1970
 180.000 .1410
 225.000 -.1500

MACH (2) = 2.000 BETAT (5) = 3.990
 X/LNM .200 .400
 PHI
 135.000 .0220
 180.000 .1430
 225.000 -.0760

MACH (2) = 2.000 BETAT (6) = 6.050
 X/LNM .200 .400
 PHI
 135.000 -.0180
 180.000 .0210
 225.000 -.1510

MACH (2) = 2.000 BETAT (7) = 6.110
 X/LNM .200 .400
 PHI
 135.000 .1180
 180.000 -.0420
 225.000 -.1590

AMES 97-707 IAS OGA + S3 + T9 OMS NOZZLE

(RBC17) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 35.8490 INCHES YMRP = .0400 INCHES
 BREF = 39.8430 INCHES ZMRP = .0200 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.0000 ORBINC = -5.000
 RUDDER = -10.0000 ELEVON = .0000
 RUDFLR = .0000

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.410	X/LNM	PHI	DEPENDENT VARIABLE CP
		.200	.400	
		135.000	.6290	
		180.000	.5180	.8790
		225.000	-.0310	
MACH (1) = 1.555	BETAT (2) = -6.360	X/LNM	PHI	DEPENDENT VARIABLE CP
		.200	.400	
		135.000	.8120	
		180.000	.5660	.6310
		225.000	-.0800	
MACH (1) = 1.555	BETAT (3) = -4.300	X/LNM	PHI	DEPENDENT VARIABLE CP
		.200	.400	
		135.000	.7240	
		180.000	.5670	.3170
		225.000	-.1670	
MACH (1) = 1.555	BETAT (4) = -.180	X/LNM	PHI	DEPENDENT VARIABLE CP
		.200	.400	
		135.000	.1730	
		180.000	.3780	-.0490
		225.000	-.2470	
MACH (1) = 1.555	BETAT (5) = 3.930	X/LNM	PHI	DEPENDENT VARIABLE CP
		.200	.400	
		135.000	-.1920	
		180.000	-.0180	-.2120
		225.000	-.2330	
MACH (1) = 1.555	BETAT (6) = 5.990	X/LNM	PHI	DEPENDENT VARIABLE CP
		.200	.400	
		135.000	-.1880	
		180.000	.1070	-.1980
		225.000	-.2290	
MACH (1) = 1.555	BETAT (7) = 8.050	X/LNM	PHI	DEPENDENT VARIABLE CP
		.200	.400	
		135.000	-.2180	
		180.000	-.1580	-.2080
		225.000	-.2190	

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A96

AMES 97-707 1A9 ORA + S3 + T9 OMS NOZZLE

(RBOE17)

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.380 X/LNM: .200 .400
 PHI
 135.000 .4860
 180.000 .5830 .7300
 225.000 .0560

MACH (2) = 2.000 BETAT (2) = -6.330 X/LNM: .200 .400
 PHI
 135.000 .6330
 180.000 .4840 .7360
 225.000 .0440

MACH (2) = 2.000 BETAT (3) = -4.280 X/LNM: .200 .400
 PHI
 135.000 .6020
 180.000 .4470 .8330
 225.000 .0730

MACH (2) = 2.000 BETAT (4) = -.178 X/LNM: .200 .400
 PHI
 135.000 .3960
 180.000 .4520 .3920
 225.000 -.0560

MACH (2) = 2.000 BETAT (5) = 3.930 X/LNM: .200 .400
 PHI
 135.000 .0220
 180.000 .3230 .0530
 225.000 -.1360

MACH (2) = 2.000 BETAT (6) = 5.980 X/LNM: .200 .400
 PHI
 135.000 -.0670
 180.000 .2480 -.0060
 225.000 -.1540

MACH (2) = 2.000 BETAT (7) = 8.040 X/LNM: .200 .400
 PHI
 135.000 -.0760
 180.000 .1510 -.0380
 225.000 -.1720

AVES 97-707 1A9 OZA + S3 + T9 OMS NOZZLE

(R00E18) (24 MAY 73)

REFERENCE DATA

CREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .5400 INCHES
 BREF = 39.8490 INCHES ZMRP = .5400 INCHES
 SCALE = .0300 SCALE

ALPHAT = -4.0000 CRBINC = .5000
 RUDDER = -10.0000 ELEVON = .0000
 RUDEFLR = .0000

PARAMETRIC DATA

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.340	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	.6620	135.000	.6620
		180.000	.4980	180.000	.4980
		225.000	-.0770	225.000	.6690
MACH (1) = 1.555	BETAT (2) = -6.300	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	.6890	135.000	.6890
		180.000	.5320	180.000	.5320
		225.000	-.1300	225.000	.4660
MACH (1) = 1.555	BETAT (3) = -4.250	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	.6790	135.000	.6790
		180.000	.4940	180.000	.4940
		225.000	-.2070	225.000	.1620
MACH (1) = 1.555	BETAT (4) = -1.600	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	.1000	135.000	.1000
		180.000	.2480	180.000	.2480
		225.000	-.2620	225.000	-.1210
MACH (1) = 1.555	BETAT (5) = 3.930	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	-.1770	135.000	-.1770
		180.000	-.0690	180.000	-.0690
		225.000	-.2390	225.000	-.2390
MACH (1) = 1.555	BETAT (6) = 5.980	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	-.1750	135.000	-.1750
		180.000	.0150	180.000	.0150
		225.000	-.2560	225.000	-.2000
MACH (1) = 1.555	BETAT (7) = 8.020	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	-.2290	135.000	-.2290
		180.000	-.1100	180.000	-.1100
		225.000	-.2330	225.000	-.2270

DATE 21 SEP 75 TABULATED PRESSURE DATA - 1A9B
 AMES 97-757 1A9 OZA + S3 + T9 OMS NOZZLE

(RBOE18)

SECTION (1) OMS NOZZLE	DEPENDENT VARIABLE CP
MACH (2) = 2.000 BETAT (1) = -6.320	X/LNM .200 .400 PHI 135.000 .3780 180.000 .4050 225.000 .5460
MACH (2) = 2.000 BETAT (2) = -6.270	X/LNM .200 .400 PHI 135.000 .4260 180.000 .4610 225.000 .6710
MACH (2) = 2.000 BETAT (3) = -4.230	X/LNM .200 .400 PHI 135.000 .5180 180.000 .4170 225.000 .7080
MACH (2) = 2.000 BETAT (4) = -.160	X/LNM .200 .400 PHI 135.000 .3710 180.000 .3980 225.000 -.1000
MACH (2) = 2.000 BETAT (5) = 3.920	X/LNM .200 .400 PHI 135.000 -.0310 180.000 .2410 225.000 -.0210
MACH (2) = 2.000 BETAT (6) = 5.960	X/LNM .200 .400 PHI 135.000 -.1110 180.000 .1440 225.000 -.0740
MACH (2) = 2.000 BETAT (7) = 6.010	X/LNM .200 .400 PHI 135.000 -.1180 180.000 .1440 225.000 -.1120

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

AWES 97-707 1A9 OEA + S3 + T9 OMS NOZZLE

(RBOE19) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5370 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0370 SCALE

PARAMETRIC DATA

ALPHAT = .000 OSBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE	MACH (1) = 1.555	BETAT (1) = -8.320	X/LNM	PHI
			.200	.400
			135.000	.4830
			180.000	.4530
			225.000	-.1120
	MACH (1) = 1.555	BETAT (2) = -6.270	X/LNM	PHI
			.200	.400
			135.000	.4870
			180.000	.4680
			225.000	-.1850
	MACH (1) = 1.555	BETAT (3) = -4.240	X/LNM	PHI
			.200	.400
			135.000	.4570
			180.000	.3770
			225.000	-.2280
	MACH (1) = 1.555	BETAT (4) = -.140	X/LNM	PHI
			.200	.400
			135.000	.0900
			180.000	.1360
			225.000	-.2640
	MACH (1) = 1.555	BETAT (5) = 3.990	X/LNM	PHI
			.200	.400
			135.000	-.0900
			180.000	.0950
			225.000	-.2580
	MACH (1) = 1.555	BETAT (6) = 5.990	X/LNM	PHI
			.200	.400
			135.000	-.1960
			180.000	-.0030
			225.000	-.2600
	MACH (1) = 1.555	BETAT (7) = 8.040	X/LNM	PHI
			.200	.400
			135.000	-.2340
			180.000	-.0960
			225.000	-.2520

(RBOE19)

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1A9B
 AMES 97-707 1A9 O2A + S3 + T9 OMS-NOZZLE

SECTION (1) OMS-NOZZLE		DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (1) = -6.300	X/LNM	.200 .400
		PHI	.2010
		135.000	.1960
		180.000	.4570
		225.000	.0780
MACH (2) = 2.000	BETAT (2) = -6.260	X/LNM	.200 .400
		PHI	.2510
		135.000	.3280
		180.000	.5810
		225.000	.1330
MACH (2) = 2.000	BETAT (3) = -4.228	X/LNM	.200 .400
		PHI	.3480
		135.000	.3510
		180.000	.9040
		225.000	-.0070
MACH (2) = 2.000	BETAT (4) = -1.140	X/LNM	.200 .400
		PHI	.2740
		135.000	.3080
		180.000	.1490
		225.000	-.1460
MACH (2) = 2.000	BETAT (5) = 3.930	X/LNM	.200 .400
		PHI	-.0230
		135.000	.1800
		180.000	-.0860
		225.000	-.1760
MACH (2) = 2.000	BETAT (6) = 5.980	X/LNM	.200 .400
		PHI	-.1040
		135.000	.0500
		180.000	-.1210
		225.000	-.1920
MACH (2) = 2.000	BETAT (7) = 8.020	X/LNM	.200 .400
		PHI	-.1320
		135.000	-.1500
		180.000	-.1620
		225.000	-.1940

AVES 97-707 IAS OEA + S3 + T9 OMS NOZZLE

(RBOE2U) (24 MAY 73)

REFERENCE DATA

SRF = 2.4210 SQ.FT. XMRP = 29.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BRF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.300 X/LNM .200 .400
 PHI
 135.000 .2670
 180.000 .3900
 225.000 -.1280

MACH (1) = 1.555 BETAT (2) = -6.270 X/LNM .200 .400
 PHI
 135.000 .3250
 180.000 .3680
 225.000 -.2090

MACH (1) = 1.555 BETAT (3) = -4.220 X/LNM .200 .400
 PHI
 135.000 .2780
 180.000 .2720
 225.000 -.0630

MACH (1) = 1.555 BETAT (4) = -.130 X/LNM .200 .400
 PHI
 135.000 -.0210
 180.000 .0260
 225.000 -.2560

MACH (1) = 1.555 BETAT (5) = 3.960 X/LNM .200 .400
 PHI
 135.000 -.0320
 180.000 .0200
 225.000 -.2070

MACH (1) = 1.555 BETAT (6) = 6.010 X/LNM .200 .400
 PHI
 135.000 -.1360
 180.000 -.0120
 225.000 -.2150

MACH (1) = 1.555 BETAT (7) = 8.060 X/LNM .200 .400
 PHI
 135.000 -.2280
 180.000 -.1090
 225.000 -.2550

(RBOE2U)

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1A9A
 AMES 97-757 1A9 OZA + S3 + 19 OMS NOZZLE

SECTION (1) OMS NOZZLE	DEPENDENT VARIABLE CP	
MACH (2) = 2.000 BETAT (1) = -0.280	X/LNM	.200 .400
	PHI	
	135.000	.0030
	180.000	.0030
	225.000	.0950
MACH (2) = 2.000 BETAT (2) = -0.240	X/LNM	.200 .400
	PHI	
	135.000	.1140
	180.000	.1690
	225.000	.0400
MACH (2) = 2.000 BETAT (3) = -4.200	X/LNM	.200 .400
	PHI	
	135.000	.2100
	180.000	.3020
	225.000	-.0440
MACH (2) = 2.000 BETAT (4) = -.130	X/LNM	.200 .400
	PHI	
	135.000	.1700
	180.000	.1790
	225.000	-.1600
MACH (2) = 2.000 BETAT (5) = 3.950	X/LNM	.200 .400
	PHI	
	135.000	.0020
	180.000	.1870
	225.000	-.1880
MACH (2) = 2.000 BETAT (6) = 5.990	X/LNM	.200 .400
	PHI	
	135.000	-.0370
	180.000	.0340
	225.000	-.1280
MACH (2) = 2.000 BETAT (7) = 6.040	X/LNM	.200 .400
	PHI	
	135.000	-.0790
	180.000	-.0840
	225.000	-.1660

AMES 97-707 1A9 02A + S3 + T9 OMS NOZZLE

(RBOE21) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

ALPHAT = 6.0000 ORBINC = .0000
 RUDDER = -19.0000 ELEVON = .0000
 RUDFLR = .0000

PARAMETRIC DATA

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE	MACH (1) = 1.555	BETAT (1) = -6.330	X/LNM	PHI	PHI
			.200	.400	.400
			.135	.1990	.2000
			.180	.3460	.2000
			.225	-.1600	.2000
			X/LNM	.200	.400
			PHI	.2440	.0450
			.135	.2440	.0450
			.180	.3680	.0450
			.225	-.2300	.0450
			X/LNM	.200	.400
			PHI	.1700	-.0360
			.135	.1700	-.0360
			.180	.2790	-.0360
			.225	-.2580	-.0360
			X/LNM	.200	.400
			PHI	-.0700	-.1980
			.135	-.0700	-.1980
			.180	-.1230	-.1980
			.225	-.2580	-.1980
			X/LNM	.200	.400
			PHI	-.0250	.1990
			.135	-.0250	.1990
			.180	.0470	.1990
			.225	-.2740	.1990
			X/LNM	.200	.400
			PHI	-.1260	-.2180
			.135	-.1260	-.2180
			.180	-.0200	-.2180
			.225	-.2730	-.2180
			X/LNM	.200	.400
			PHI	-.2350	-.2640
			.135	-.2350	-.2640
			.180	-.1730	-.2640
			.225	-.2690	-.2640

MACH (1) = 1.555 BETAT (7) = 6.110

(RBOE21)

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1A9B
 AMES 97-707 1A9 O2A + S3 + T9 OMS NOZZLE

SECTION (1) OMS NOZZLE
 DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (1) = -8.310	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	-.0970	135.000	-.0970
		180.000	.0010	180.000	-.0890
		225.000	.0070	225.000	.0070
MACH (2) = 2.000	BETAT (2) = -6.260	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	.0300	135.000	.2180
		180.000	.0670	180.000	.2180
		225.000	.0120	225.000	.0120
MACH (2) = 2.000	BETAT (3) = -4.210	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	.1400	135.000	.2710
		180.000	.2790	180.000	.2710
		225.000	-.0600	225.000	-.0600
MACH (2) = 2.000	BETAT (4) = -.120	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	.1300	135.000	.1300
		180.000	.1360	180.000	.1360
		225.000	-.1600	225.000	-.1600
MACH (2) = 2.000	BETAT (5) = 3.970	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	.0280	135.000	.0280
		180.000	.1670	180.000	-.0810
		225.000	-.1890	225.000	-.1890
MACH (2) = 2.000	BETAT (6) = 6.020	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	.0350	135.000	-.1310
		180.000	.0350	180.000	-.1310
		225.000	-.1990	225.000	-.1990
MACH (2) = 2.000	BETAT (7) = 9.070	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	.1040	135.000	-.1960
		180.000	-.1270	180.000	-.1960
		225.000	-.2060	225.000	-.2060

DATE 01 SEP 73
 TABULATED PRESSURE DATA - 1A98
 CASE 97-707 1A9 CEA + S3 + T9 OMS NOZZLE

(R00E22) (24 MAY 73)

PARAMETRIC DATA

ALPHAT = 8.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDEFL = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5310 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0310 SCALE

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE	MACH (1) = 1.555	BETAT (1) = -8.360	X/LNM	PHI
			.200	.400
			.1300	.1300
			.2980	.0000
			-.2240	.0000
			.200	.400
			.1500	.1500
			.2940	-.0770
			-.2640	.0000
			.200	.400
			.1980	.1980
			.2570	-.1080
			-.2630	.0000
			.200	.400
			.1680	.1680
			-.1520	-.2150
			-.2560	.0000
			.200	.400
			.0310	.0310
			.0250	-.1980
			-.2760	.0000
			.200	.400
			.1350	.1350
			-.1680	-.2300
			-.2760	.0000
			.200	.400
			.1200	.1200
			-.1650	-.2640
			-.2010	.0000

(RBOE22)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 O2A + S3 + T9 OMS NOZZLE

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (1) = -8.330	X/LNM	.200	.400
		PHI		
		135.000	-.1580	
		180.000	-.0028	-.1070
		225.000	-.1150	
MACH (2) = 2.000	BETAT (2) = -6.280	X/LNM	.200	.400
		PHI		
		135.000	-.0180	
		180.000	.0790	-.0240
		225.000	-.1030	
MACH (2) = 2.000	BETAT (3) = -4.220	X/LNM	.200	.400
		PHI		
		135.000	.0690	
		180.000	.2220	.1920
		225.000	-.0630	
MACH (2) = 2.000	BETAT (4) = -.110	X/LNM	.200	.400
		PHI		
		135.000	.1620	
		180.000	.1270	.0530
		225.000	-.1580	
MACH (2) = 2.000	BETAT (5) = 4.000	X/LNM	.200	.400
		PHI		
		135.000	.0280	
		180.000	.1450	-.0770
		225.000	-.1910	
MACH (2) = 2.000	BETAT (6) = 6.050	X/LNM	.200	.400
		PHI		
		135.000	-.0280	
		180.000	.0280	-.1490
		225.000	-.1990	
MACH (2) = 2.000	BETAT (7) = 8.110	X/LNM	.200	.400
		PHI		
		135.000	.1220	
		180.000	-.0400	-.1630
		225.000	-.2130	

(RBOE23) (24 MAY 73)

DATE 21 SEP 73
 TABULATED PRESSURE DATA - IA98
 AMES 97-707 IA9 OGA + S3 + T9 OMS NOZZLE

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE	MACH (1) = 1.555	BETAT (1) = -8.400	X/LNM	PHI	X/LNM	PHI
			.200	.400		
			135.000	.8060		
			180.000	.4960		.8840
			225.000	-.1040		
			X/LNM	.200	.400	
			135.000	.7930		
			180.000	.5480		.6650
			225.000	-.1060		
			X/LNM	.200	.400	
			135.000	.7260		
			180.000	.5640		.3270
			225.000	-.1620		
			X/LNM	.200	.400	
			135.000	.2040		
			180.000	.4030		-.0230
			225.000	-.2570		
			X/LNM	.200	.400	
			135.000	-.1980		
			180.000	-.0070		-.2190
			225.000	-.2390		
			X/LNM	.200	.400	
			135.000	-.2250		
			180.000	-.0910		-.2170
			225.000	-.2270		
			X/LNM	.200	.400	
			135.000	.4880		
			180.000	.5820		.7250
			225.000	.0560		

MACH (1) = 1.555 BETAT (1) = -8.400

MACH (1) = 1.555 BETAT (2) = -6.360

MACH (1) = 1.555 BETAT (3) = -4.290

MACH (1) = 1.555 BETAT (4) = -.170

MACH (1) = 1.555 BETAT (5) = 3.940

MACH (1) = 1.555 BETAT (6) = 8.060

MACH (2) = 2.000 BETAT (1) = -8.360

AMES 97-797 1A9 OEA + S3 + T9 OMS NOZZLE

(RBOE23)

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (2) = -6.330	X/LNM	.200	.400
		PHI		
		135.000	.6320	
		180.000	.4810	.7210
		225.000	.0360	
MACH (2) = 2.000	BETAT (3) = -4.280	X/LNM	.200	.400
		PHI		
		135.000	.5990	
		180.000	.4400	.8210
		225.000	.0650	
MACH (2) = 2.000	BETAT (4) = -1.170	X/LNM	.200	.400
		PHI		
		135.000	.3850	
		180.000	.4490	.3960
		225.000	-.0510	
MACH (2) = 2.000	BETAT (5) = 3.980	X/LNM	.200	.400
		PHI		
		135.000	.0280	
		180.000	.3220	.0550
		225.000	-.1340	
MACH (2) = 2.000	BETAT (6) = 5.980	X/LNM	.200	.400
		PHI		
		135.000	-.0680	
		180.000	.2500	-.0120
		225.000	-.1550	
MACH (2) = 2.000	BETAT (7) = 8.000	X/LNM	.200	.400
		PHI		
		135.000	-.0760	
		180.000	.1430	-.0410
		225.000	-.1780	

(RBEZ4) (24 MAY 73)

DATE 24 SEP 73 TABULATED PRESSURE DATA - 1A99
 AMES 97-717 1A9 O2A + S3 + T9 OMS NOZZLE

PARAMETRIC DATA

ALPHAT = -4.144
 CRBINC = .000
 RUDDER = 15.000
 ELEVON = .000
 RUDFLR = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 26.5310 INCHES
 LREF = 39.8490 INCHES YMRP = .0400 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE	MACH (1) = 1.555	BETAT (1) = -8.330	X/LNM	PHI	CP
			.200	.400	.000
			135.000	.6760	.7130
			180.000	.4810	.7130
			225.000	-.0790	.7130
			X/LNM	.200	.400
			PHI	.6830	.4710
			135.000	.5300	.4710
			180.000	-.1270	.4710
			225.000	-.2140	.4710
			X/LNM	.200	.400
			PHI	.6080	.1640
			135.000	.4910	.1640
			180.000	-.2140	.1640
			225.000	-.2720	.1640
			X/LNM	.200	.400
			PHI	.1440	-.1040
			135.000	.2810	-.1040
			180.000	-.2720	-.1040
			225.000	-.2720	-.1040
			X/LNM	.200	.400
			PHI	-.1870	-.2320
			135.000	-.0750	-.2320
			180.000	-.2450	-.2320
			225.000	-.2450	-.2320
			X/LNM	.200	.400
			PHI	-.1720	-.2030
			135.000	.1210	-.2030
			180.000	-.2570	-.2030
			225.000	-.2570	-.2030
			X/LNM	.200	.400
			PHI	-.2290	-.2290
			135.000	-.1150	-.2290
			180.000	-.2380	-.2290
			225.000	-.2380	-.2290

MACH (1) = 1.555 BETAT (1) = -8.330

MACH (1) = 1.555 BETAT (2) = -6.290

MACH (1) = 1.555 BETAT (3) = -4.240

MACH (1) = 1.555 BETAT (4) = -2.180

MACH (1) = 1.555 BETAT (5) = 3.940

MACH (1) = 1.555 BETAT (6) = 5.980

MACH (1) = 1.555 BETAT (7) = 6.030

(RBOE24)

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1A9B
 AMES 97-707 1A9 O2A + S3 + T9 OMS NOZZLE

SECTION (1) OMS NOZZLE		DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (1) = -8.310	X/LNM	.200
		PHI	.400
		135.000	.3820
		180.000	.4030
		225.000	.5530
MACH (2) = 2.000	BETAT (2) = -6.270	X/LNM	.200
		PHI	.400
		135.000	.4320
		180.000	.4830
		225.000	.6630
MACH (2) = 2.000	BETAT (3) = -4.230	X/LNM	.200
		PHI	.400
		135.000	.5180
		180.000	.4130
		225.000	.6980
MACH (2) = 2.000	BETAT (4) = -.160	X/LNM	.200
		PHI	.400
		135.000	.3740
		180.000	.3990
		225.000	-.1030
MACH (2) = 2.000	BETAT (5) = 3.920	X/LNM	.200
		PHI	.400
		135.000	-.0100
		180.000	.2540
		225.000	-.1610
MACH (2) = 2.000	BETAT (6) = 5.960	X/LNM	.200
		PHI	.400
		135.000	-.0980
		180.000	.1930
		225.000	-.0640
MACH (2) = 2.000	BETAT (7) = 6.010	X/LNM	.200
		PHI	.400
		135.000	-.1070
		180.000	.0530
		225.000	-.1078

DATE 21 SEP 73

LABULATED PRESSURE DATA - 1A9B
 AMES 97-7J7 IAG OCA + S3 + T9 OPS NOZZLE

(RBOE25) (24 MAY 73)

PARAMETRIC DATA

ALPMAT = .1440 ORBINC = .0000
 RUDDER = 15.0000 ELEVON = .0000
 RUDFLR = .0000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5310 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0304 SCALE

SECTION (1) OPS NOZZLE DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.320	X/LNM	PHI
		.200	.410
		.5120	
		.4400	.5300
		-.1180	
MACH (1) = 1.555	BETAT (2) = -6.270	X/LNM	PHI
		.200	.410
		.5040	
		.4670	.2320
		-.1930	
MACH (1) = 1.555	BETAT (3) = -4.240	X/LNM	PHI
		.200	.410
		.4920	
		.3760	.0460
		-.2280	
MACH (1) = 1.555	BETAT (4) = -1.130	X/LNM	PHI
		.200	.410
		.6690	
		.1570	-.1470
		-.2720	
MACH (1) = 1.555	BETAT (5) = 7.990	X/LNM	PHI
		.200	.410
		-.0160	
		.0870	-.1850
		-.2730	
MACH (1) = 1.555	BETAT (6) = 5.990	X/LNM	PHI
		.200	.410
		-.1320	
		.0380	-.2090
		-.2740	
MACH (1) = 1.555	BETAT (7) = 6.140	X/LNM	PHI
		.200	.410
		-.2340	
		-.0860	-.2420
		-.2570	

AMES 97-707 IA9 O2A + S3 + T9 OHS NOZZLE

(RBOE25)

SECTION (1) OHS NOZZLE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.290

X/LNM	.200	.400
PHI		
135.000	.2220	
180.000	.2010	.4320
225.000	.0730	

MACH (2) = 2.000 BETAT (2) = -6.250

X/LNM	.200	.400
PHI		
135.000	.2730	
180.000	.3470	.6140
225.000	.0330	

MACH (2) = 2.000 BETAT (3) = -4.210

X/LNM	.200	.400
PHI		
135.000	.3660	
180.000	.3450	.5040
225.000	-.0190	

MACH (2) = 2.000 BETAT (4) = -1.140

X/LNM	.200	.400
PHI		
135.000	.2980	
180.000	.3250	.1700
225.000	-.1380	

MACH (2) = 2.000 BETAT (5) = 3.950

X/LNM	.200	.400
PHI		
135.000	.0210	
180.000	.2260	-.0560
225.000	-.1690	

MACH (2) = 2.000 BETAT (6) = 8.020

X/LNM	.200	.400
PHI		
135.000	-.1340	
180.000	-.0410	-.1580
225.000	-.1930	

(RB0226) (24 MAY 73)

TABULATED PRESSURE DATA - 1A9B
 AMES 97-717 1A9 O2A + S3 + T9 OMS NOZZLE

PARAMETRIC DATA

ALPHAT = 4.000 CRBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 29.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

SECTION (1) OMS NOZZLE

MACH (1) = 1.555 BETAT (1) = -0.300
 X/LNM .200 .400
 PHI .3150
 180.000 .3350
 225.000 -.1260

MACH (2) = 1.555 BETAT (2) = -0.260
 X/LNM .200 .400
 PHI .3290
 180.000 .3730 .1160
 225.000 -.2190

MACH (3) = 1.555 BETAT (3) = -0.220
 X/LNM .200 .400
 PHI .2760
 180.000 .2620 -.1770
 225.000 -.2640

MACH (4) = 1.555 BETAT (4) = -0.180
 X/LNM .200 .400
 PHI .1690
 180.000 .1340 -.1970
 225.000 -.2640

MACH (5) = 1.555 BETAT (5) = 0.960
 X/LNM .200 .400
 PHI -.0100
 180.000 .0630 -.1990
 225.000 -.2010

MACH (6) = 1.555 BETAT (6) = 6.110
 X/LNM .200 .400
 PHI .1190
 180.000 .1070 -.2130
 225.000 -.2030

MACH (7) = 1.555 BETAT (7) = 8.050
 X/LNM .200 .400
 PHI .2260
 180.000 -.1190 -.2330
 225.000 -.2680

DEPENDENT VARIABLE CP

AMES 97-707 IAS OEA + S3 + T9 OMS NOZZLE

(M80326)

SECTION (1) OMS NOZZLE DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (1) = -0.280	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	.0660	135.000	.0660
		180.000	.0140	180.000	.0140
		225.000	.0990	225.000	.0990
MACH (2) = 2.000	BETAT (2) = -0.230	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	.1270	135.000	.1270
		180.000	.2090	180.000	.2090
		225.000	.0970	225.000	.0970
MACH (2) = 2.000	BETAT (3) = -0.200	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	.2070	135.000	.2070
		180.000	.2970	180.000	.2970
		225.000	-.0910	225.000	-.0910
MACH (2) = 2.000	BETAT (4) = -.120	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	.1990	135.000	.1990
		180.000	.1060	180.000	.1060
		225.000	-.1920	225.000	-.1920
MACH (2) = 2.000	BETAT (5) = 3.990	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	.0280	135.000	.0280
		180.000	.2170	180.000	.2170
		225.000	-.1080	225.000	-.1080
MACH (2) = 2.000	BETAT (6) = 5.990	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	-.0280	135.000	-.0280
		180.000	.0740	180.000	.0740
		225.000	-.2040	225.000	-.2040
MACH (2) = 2.000	BETAT (7) = 6.030	X/LNM	PHI	X/LNM	PHI
		.200	.400	.200	.400
		135.000	-.1890	135.000	-.1890
		180.000	-.1670	180.000	-.1670
		225.000	-.2060	225.000	-.2060

REBOE27 (24 MAY 73)

TABLATED PRESSURE DATA - 1A98
AMES 97-707 1A9 OEA + S3 + 79 OMS NOZZLE

PARAMETRIC DATA
ALPHAT = 6.000 CRBINC = 0.000
RUDDER = 15.000 ELEVON = 0.000
RUDFLR = 0.000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = 0.0000 INCHES
BREF = 39.8490 INCHES ZMRP = 0.0000 INCHES
SCALE = 0.0300 SCALE

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE	MACH (1) = 1.555	BETAT (1) = -8.330	X/LNM	PHI	CP
SECTION (1)	MACH (1) = 1.555	BETAT (1) = -8.330	X/LNM	.200	.400
			PHI	.2140	
				.2050	
SECTION (2)	MACH (2) = 1.555	BETAT (2) = -6.270	X/LNM	.200	.400
			PHI	.2510	
				.0430	
SECTION (3)	MACH (3) = 1.555	BETAT (3) = -4.230	X/LNM	.200	.400
			PHI	.1580	
				-.0520	
SECTION (4)	MACH (4) = 1.555	BETAT (4) = -1.110	X/LNM	.200	.400
			PHI	-.0550	
				-.1950	
SECTION (5)	MACH (5) = 1.555	BETAT (5) = 3.990	X/LNM	.200	.400
			PHI	-.0070	
				-.1660	
SECTION (6)	MACH (6) = 1.555	BETAT (6) = 6.030	X/LNM	.200	.400
			PHI	-.1160	
				-.2170	
SECTION (7)	MACH (7) = 1.555	BETAT (7) = 8.190	X/LNM	.200	.400
			PHI	-.2380	
				-.2630	

DATE 21 SEP 73

TABLATED PRESSURE DATA - IASB
 ANES 97-707 IAS O2A + S3 + T9 OMS NOZZLE

(R0C27)

SECTION (1) OMS NOZZLE
 DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (1) = -8.300	X/LNM	.200	.400
		PHI		
		135.000	-.1220	
		180.000	-.0410	-.0610
		225.000	.0250	
MACH (2) = 2.000	BETAT (2) = -6.250	X/LNM	.200	.400
		PHI		
		135.000	.0590	
		180.000	.0670	.3820
		225.000	.0330	
MACH (2) = 2.000	BETAT (3) = -4.200	X/LNM	.200	.400
		PHI		
		135.000	.1420	
		180.000	.2790	.3070
		225.000	-.0410	
MACH (2) = 2.000	BETAT (4) = -.120	X/LNM	.200	.400
		PHI		
		135.000	.1510	
		180.000	.1380	.0690
		225.000	-.1520	
MACH (2) = 2.000	BETAT (5) = 3.970	X/LNM	.200	.400
		PHI		
		135.000	.0260	
		180.000	.1820	-.0630
		225.000	-.1890	
MACH (2) = 2.000	BETAT (6) = 6.000	X/LNM	.200	.400
		PHI		
		135.000	.0430	
		180.000	.0670	-.1260
		225.000	-.2020	
MACH (2) = 2.000	BETAT (7) = 6.070	X/LNM	.200	.400
		PHI		
		135.000	.0770	
		180.000	-.1210	-.2150
		225.000	-.2110	

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

AMES 97-717 1A9 OSA + S3 + T9 OMS NOZZLE

(RBOC28) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5375 INCHES
 LREF = 39.6493 INCHES YMRP = .1665 INCHES
 BREF = 39.6493 INCHES ZMRP = .1665 INCHES
 SCALE = .0375 SCALE

PARAMETRIC DATA

ALPHAT = 8.5625 ORBINC = .5625
 RUDDER = 15.0000 ELEVON = .5625
 RUOFLR = .5625

DEPENDENT VARIABLE CP

SECTION (1) OMS NOZZLE

MACH (1) = 1.555 BETAT (1) = -0.350 X/LNM .200 .400
 PHI
 135.000 .1390
 180.000 .2910 .0340
 225.000 -.2240

MACH (1) = 1.555 BETAT (2) = -0.300 X/LNM .200 .400
 PHI
 135.000 .1560
 180.000 .2970 -.0650
 225.000 -.2640

MACH (1) = 1.555 BETAT (3) = -0.250 X/LNM .200 .400
 PHI
 135.000 .0890
 180.000 .2450 -.5470
 225.000 -.2690

MACH (1) = 1.555 BETAT (4) = -0.110 X/LNM .200 .400
 PHI
 135.000 -.5610
 180.000 -.0430 -.2160
 225.000 -.2620

MACH (1) = 1.555 BETAT (5) = 0.100 X/LNM .200 .400
 PHI
 135.000 -.0070
 180.000 .0450 -.1000
 225.000 -.2680

MACH (1) = 1.555 BETAT (6) = 0.060 X/LNM .200 .400
 PHI
 135.000 -.1180
 180.000 -.0520 -.2290
 225.000 -.2660

MACH (1) = 1.555 BETAT (7) = 0.130 X/LNM .200 .400
 PHI
 135.000 -.2130
 180.000 -.1740 -.2620
 225.000 -.2750

(10028)

DATE 21 SEP 79 TABULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 OZA + S3 + T9 OMS NOZZLE

SECTION (1) OMS NOZZLE		DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (1) = -0.320	X/LNM	.200 .400
		PHI	
		135.000	-.1680
		180.000	.0000
		225.000	-.1120
MACH (2) = 2.000	BETAT (2) = -0.280	X/LNM	.200 .400
		PHI	
		135.000	-.0060
		180.000	.0800
		225.000	-.0790
MACH (2) = 2.000	BETAT (3) = -4.210	X/LNM	.200 .400
		PHI	
		135.000	.0560
		180.000	.2160
		225.000	-.0590
MACH (2) = 2.000	BETAT (4) = -.110	X/LNM	.200 .400
		PHI	
		135.000	.2150
		180.000	.1380
		225.000	-.1440
MACH (2) = 2.000	BETAT (5) = 3.990	X/LNM	.200 .400
		PHI	
		135.000	.0920
		180.000	.1630
		225.000	-.1880
MACH (2) = 2.000	BETAT (6) = 6.090	X/LNM	.200 .400
		PHI	
		135.000	.0100
		180.000	.0980
		225.000	-.2040
MACH (2) = 2.000	BETAT (7) = 8.110	X/LNM	.200 .400
		PHI	
		135.000	.1410
		180.000	-.0380
		225.000	-.1720

AMES 97-707 1A9 02A + S3 + T9 BODY FLAP

(RBOF01) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

BETAT = .0000 ORBINC = .5000
 RUDDER = .0000 ELEVON = .0000
 RUDFLR = .0000

DEPENDENT VARIABLE CP

SECTION (1) BODY FLAP

MACH (1)	ALPHAT(1)	X/LB	PHI
1.555	-8.400	1.039	.0000
			40.0000
1.555	-6.350	1.039	.0000
			40.0000
1.555	-4.290	1.039	.0000
			40.0000
1.555	-2.190	1.039	.0000
			40.0000
1.555	-0.120	1.039	.0000
			40.0000
1.555	1.950	1.039	.0000
			40.0000
1.555	4.010	1.039	.0000
			40.0000
1.555	6.060	1.039	.0000
			40.0000

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98
AWES 97-707 1A9 OBA + S3 + T9 BODY FLAP

(RBOFD1)

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 1.935	ALPHAT(9) = 8.130	X/LB	1.039
		PHI	
		.000	-.0370
		40.000	-.0940
MACH (2) = 2.000	ALPHAT(1) = -8.360	X/LB	1.039
		PHI	
		.000	-.1000
		40.000	-.1080
MACH (2) = 2.000	ALPHAT(2) = -6.310	X/LB	1.039
		PHI	
		.000	-.0910
		40.000	-.1100
MACH (2) = 2.000	ALPHAT(3) = -4.250	X/LB	1.039
		PHI	
		.000	-.0800
		40.000	-.1070
MACH (2) = 2.000	ALPHAT(4) = -2.210	X/LB	1.039
		PHI	
		.000	-.0800
		40.000	-.1030
MACH (2) = 2.000	ALPHAT(5) = -.160	X/LB	1.039
		PHI	
		.000	-.0750
		40.000	-.0990
MACH (2) = 2.000	ALPHAT(6) = 1.690	X/LB	1.039
		PHI	
		.000	-.0650
		40.000	-.0940
MACH (2) = 2.000	ALPHAT(7) = 3.930	X/LB	1.039
		PHI	
		.000	-.0550
		40.000	-.0870
MACH (2) = 2.000	ALPHAT(8) = 5.980	X/LB	1.039
		PHI	
		.000	-.0380
		40.000	-.0730

DATE 21 SEP 73

TABLATED PRESSURE DATA - 1A98

AMES 97-707 1A9 02A + S3 + T9 BODY FLAP

(RBOF:1)

DEPENDENT VARIABLE CP

SECTION (1) BODY FLAP

MACH (2) = 2.1000 ALPHAT(9) = 8.020
X/LB 1.039
PHI .1400 - .0280
40.000 - .0690

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

ANES 97-707 1A9 02A + S3 + T9 BODY FLAP (RBOFD2) (24 MAY 73)

PARAMETRIC DATA
 ALPHAT = 8.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.140
 X/LB PHI 1.039
 .000
 40.000 -.0190
 40.000 .0130

MACH (1) = 1.555 BETAT (2) = -5.114
 X/LB PHI 1.039
 .000
 40.000 -.0100
 40.000 .0190

MACH (1) = 1.555 BETAT (3) = -3.088
 X/LB PHI 1.039
 .000
 40.000 -.0250
 40.000 -.0200

MACH (1) = 1.555 BETAT (4) = 5.110
 X/LB PHI 1.039
 .000
 40.000 -.0090
 40.000 -.0830

MACH (1) = 1.555 BETAT (5) = 7.140
 X/LB PHI 1.039
 .000
 40.000 -.0340
 40.000 -.1170

MACH (1) = 1.555 BETAT (6) = 9.190
 X/LB PHI 1.039
 .000
 40.000 -.0280
 40.000 -.1330

MACH (2) = 2.000 BETAT (1) = -6.320
 X/LB PHI 1.039
 .000
 40.000 -.0390
 40.000 -.1680

MACH (2) = 2.000 BETAT (2) = -6.270
 X/LB PHI 1.039
 .000
 40.000 -.0350
 40.000 -.1070

(R00F12)

DATE 21 SEP 73 CALCULATED PRESSURE DATA - 1A9B MACHS 0.7-7.7 1A9 OEA + S3 + T9 BODY FLAP

DEPENDENT VARIABLE CP

SECTION (1) BODY FLAP

MACH (2) = 2.000	BETAT (3) = -4.210	X/LB	1.039
		PMI	-.0190
			40.000 -.0810
MACH (2) = 2.000	BETAT (4) = 3.990	X/LB	1.039
		PMI	-.0580
			40.000 -.0760
MACH (2) = 2.000	BETAT (5) = 6.060	X/LB	1.039
		PMI	-.0610
			40.000 -.0950
MACH (2) = 2.000	BETAT (6) = 8.120	X/LB	1.039
		PMI	-.0720
			40.000 -.0880

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

AMES 97-707 1A9 O2A + S3 + T9 BODY FLAP

(RBOF03) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.144) OSBINC = .953)
 RUDDER = .144) ELEVON = .142)
 RUDFLR = .144)

DEPENDENT VARIABLE CP

SECTION (1) BODY FLAP	MACH (1) = 1.555	BETAT (1) = -7.120	X/LB	PHI	1.039
			.000		-.0320
			40.000		-.0030
MACH (1) = 1.555	BETAT (2) = -5.070	X/LB	PHI	1.039	
		.000			-.0180
		40.000			.0900
MACH (1) = 1.555	BETAT (3) = -3.050	X/LB	PHI	1.039	
		.000			-.0380
		40.000			-.0180
MACH (1) = 1.555	BETAT (4) = 5.060	X/LB	PHI	1.039	
		.000			-.0250
		40.000			-.1030
MACH (1) = 1.555	BETAT (5) = 7.110	X/LB	PHI	1.039	
		.000			-.0430
		40.000			-.1240
MACH (1) = 1.555	BETAT (6) = 9.140	X/LB	PHI	1.039	
		.000			-.0420
		40.000			-.1420
MACH (2) = 2.000	BETAT (1) = -6.300	X/LB	PHI	1.039	
		.000			-.0580
		40.000			-.1760
MACH (2) = 2.000	BETAT (2) = -6.250	X/LB	PHI	1.039	
		.000			-.0510
		40.000			-.1300

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98
AMES 97-71.7 IAS Q2A + S3 + T9 BODY FLAP

(RB-703)

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (3) = -4.260	X/LB	1.039
		PHI	
		.020	-.0360
		40.000	-.0920
MACH (2) = 2.000	BETAT (4) = 3.970	X/LB	1.039
		PHI	
		.020	-.0620
		40.000	-.0860
MACH (2) = 2.000	BETAT (5) = 6.030	X/LB	1.039
		PHI	
		.020	-.0730
		40.000	-.1020
MACH (2) = 2.000	BETAT (6) = 8.080	X/LB	1.039
		PHI	
		.020	-.0910
		40.000	-.1660

REFERENCE DATA
 SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA
 ALPHAT = 4.0000 ORBINC = .5000
 RUDDER = .0000 ELEVON = .0000
 RUOFLR = .0000

SECTION (1) BODY FLAP		DEPENDENT VARIABLE CP	
MACH (1) = 1.555	BETAT (1) = -7.090	X/LB	1.039
		PHI	.000
		40.000	-.0320
		40.000	-.0320
MACH (1) = 1.555	BETAT (2) = -5.070	X/LB	1.039
		PHI	.000
		40.000	-.0180
		40.000	.0140
MACH (3) = 1.555	BETAT (3) = -3.040	X/LB	1.039
		PHI	.000
		40.000	-.0490
		40.000	-.0510
MACH (3) = 1.555	BETAT (4) = 5.060	X/LB	1.039
		PHI	.000
		40.000	-.0160
		40.000	-.1020
MACH (3) = 1.555	BETAT (5) = 7.080	X/LB	1.039
		PHI	.000
		40.000	-.0250
		40.000	-.1140
MACH (3) = 1.555	BETAT (6) = 9.100	X/LB	1.039
		PHI	.000
		40.000	-.0460
		40.000	-.1630
MACH (2) = 2.000	BETAT (1) = -8.270	X/LB	1.039
		PHI	.000
		40.000	-.0570
		40.000	-.1850
MACH (2) = 2.000	BETAT (2) = -6.240	X/LB	1.039
		PHI	.000
		40.000	-.0680
		40.000	-.1240

AMES 97-707 1A9 CEA + S3 + T9 BODY FLAP

(RBOFU4)

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.200 X/LB 1.039
 PHI .000 -.0450
 40.000 -.0770

MACH (2) = 2.000 BETAT (4) = 3.950 X/LB 1.039
 PHI .000 -.0680
 40.000 -.0960

A

MACH (2) = 2.000 BETAT (5) = 5.990 X/LB 1.039
 PHI .000 -.0840
 40.000 -.1150

MACH (2) = 2.000 BETAT (6) = 8.030 X/LB 1.039
 PHI .000 -.1020
 40.000 -.1590

AMES 97-707 IAS OEA + S3 + T9 BODY FLAP

(RBOFOS) (24 MAY 75)

REFERENCE DATA

SREF = 2.4210 84-FT. XMRP = 26.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .5000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 2.0000 ORBINC = .500
 RUDDER = .0000 ELEVON = .000
 RUDFLR = .0000

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -7.100	X/LB	PHI
		1.039	.000
			40.000
			-.0310
			-.0930
MACH (1) = 1.555	BETAT (2) = -5.070	X/LB	PHI
		1.039	.000
			40.000
			-.0310
			-.0190
MACH (1) = 1.555	BETAT (3) = -3.050	X/LB	PHI
		1.039	.000
			40.000
			-.0420
			-.0650
MACH (1) = 1.555	BETAT (4) = 5.050	X/LB	PHI
		1.039	.000
			40.000
			-.0240
			-.1080
MACH (1) = 1.555	BETAT (5) = 7.070	X/LB	PHI
		1.039	.000
			40.000
			-.0450
			-.1140
MACH (1) = 1.555	BETAT (6) = 9.080	X/LB	PHI
		1.039	.000
			40.000
			-.1060
			-.1820
MACH (2) = 2.000	BETAT (1) = -6.280	X/LB	PHI
		1.039	.000
			40.000
			-.0650
			-.1520
MACH (2) = 2.000	BETAT (2) = -6.250	X/LB	PHI
		1.039	.000
			40.000
			-.0640
			-.1110

(RBOFT15)

SECTION (1) BODY FLAP DEPENDENT VARIABLE CF

MACH (2) = 2.000	BETAT (3) = -4.140	X/LB	1.039
		PHI	
		.000	-.0550
		40.000	-.0790
MACH (2) = 2.000	BETAT (4) = 3.940	X/LB	1.039
		PHI	
		.000	-.0780
		40.000	-.1030
MACH (2) = 2.000	BETAT (5) = 5.980	X/LB	1.039
		PHI	
		.000	-.0890
		40.000	-.1240
MACH (2) = 2.000	BETAT (6) = 6.020	X/LB	1.039
		PHI	
		.000	-.1020
		40.000	-.1180

(RBOF06) (24 MAY 73)

PARAMETRIC DATA

ALPHAT = .0000 ORBINC = .5000
 RUDDER = .0000 ELEVON = .0000
 RUDFLR = .0000

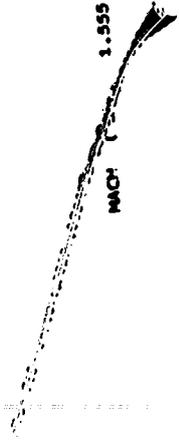
TABLATED PRESSURE DATA - IA98
 AMES 97-707 1A9 OSA + S3 + T9 BODY FLAP

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

DEPENDENT VARIABLE CP

SECTION (1) BODY FLAP	MACH (1) = 1.555	BETAT (1) = -7.100	X/LB	PHI
			1.039	.0000
				40.0000
				-0.0410
				-0.1100
				-0.0560
				-0.0470
				-0.0490
				-0.1070
				-0.0680
				-0.1100
				-0.0780
				-0.1700
				-0.0790
				-0.1080



(RBCF16)

DATE 21 SEP 73 TABULATED PRESSURE DATA - IAS9
AMES 97-707 IAS Q2A + S3 + T9 BODY FLAP

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 2.0000	BETAT (3) = -0.130	X/LB	1.039
		PHI	
		.0000	-0.0980
		40.0000	-0.0990
MACH (2) = 2.0000	BETAT (4) = 3.950	X/LB	1.039
		PHI	
		.0000	-0.0990
		40.0000	-0.1160
MACH (2) = 2.0000	BETAT (5) = 5.980	X/LB	1.039
		PHI	
		.0000	-0.0990
		40.0000	-0.1270

(RBOFU7) (24 MAY 73)

DATE 21 SEP 73
 TABULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 OEA + S3 + T9 BODY FLAP

REFERENCE DATA

SREF = 2.4210 SQ.FT. CRIP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

DEPENDENT VARIABLE CP

SECTION (1) BODY FLAP	MACH (1) = 1.555	BETAT (1) = -7.110	X/LB	PHI	ALPHAT =	RUDDER =	RUDFLR =	ORBINC =	ELEVON =
			40.0000	-0.0680	-2.0000	.0000	.0000	.5000	.0000
			40.0000	-0.1140	.0000	.0000	.0000	.0000	.0000
SECTION (1) BODY FLAP	MACH (1) = 1.555	BETAT (2) = -5.080	X/LB	PHI	ALPHAT =	RUDDER =	RUDFLR =	ORBINC =	ELEVON =
			40.0000	-0.0630	-2.0000	.0000	.0000	.5000	.0000
			40.0000	-0.0550	.0000	.0000	.0000	.0000	.0000
SECTION (1) BODY FLAP	MACH (1) = 1.555	BETAT (3) = -3.070	X/LB	PHI	ALPHAT =	RUDDER =	RUDFLR =	ORBINC =	ELEVON =
			40.0000	-0.0680	-2.0000	.0000	.0000	.5000	.0000
			40.0000	-0.0810	.0000	.0000	.0000	.0000	.0000
SECTION (1) BODY FLAP	MACH (1) = 1.555	BETAT (4) = 5.040	X/LB	PHI	ALPHAT =	RUDDER =	RUDFLR =	ORBINC =	ELEVON =
			40.0000	-0.0730	-2.0000	.0000	.0000	.5000	.0000
			40.0000	-0.1190	.0000	.0000	.0000	.0000	.0000
SECTION (1) BODY FLAP	MACH (1) = 1.555	BETAT (5) = 7.060	X/LB	PHI	ALPHAT =	RUDDER =	RUDFLR =	ORBINC =	ELEVON =
			40.0000	-0.0800	-2.0000	.0000	.0000	.5000	.0000
			40.0000	-0.1210	.0000	.0000	.0000	.0000	.0000
SECTION (1) BODY FLAP	MACH (1) = 1.555	BETAT (6) = 9.080	X/LB	PHI	ALPHAT =	RUDDER =	RUDFLR =	ORBINC =	ELEVON =
			40.0000	-0.0390	-2.0000	.0000	.0000	.5000	.0000
			40.0000	-0.1150	.0000	.0000	.0000	.0000	.0000
			40.0000	-0.1550	.0000	.0000	.0000	.0000	.0000
SECTION (2) BODY FLAP	MACH (2) = 2.000	BETAT (1) = -8.310	X/LB	PHI	ALPHAT =	RUDDER =	RUDFLR =	ORBINC =	ELEVON =
			40.0000	-0.0960	-2.0000	.0000	.0000	.5000	.0000
			40.0000	-0.2040	.0000	.0000	.0000	.0000	.0000
SECTION (2) BODY FLAP	MACH (2) = 2.000	BETAT (2) = -6.260	X/LB	PHI	ALPHAT =	RUDDER =	RUDFLR =	ORBINC =	ELEVON =
			40.0000	-0.1130	-2.0000	.0000	.0000	.5000	.0000
			40.0000	-0.1940	.0000	.0000	.0000	.0000	.0000

PARAMETRIC DATA

DATE 21 SEP 75 TABULATED PRESSURE DATA - 1498

APES 97-7-7 1A9 O2A + S3 + T9 BODY FLAP

(RBOFD7)

DEPENDENT VARIABLE CP

SECTION (1) BODY FLAP

MACH (2) = 2.000 BETAT (3) = -4.230 X/LB 1.039
 PHI .000 -.0950
 40.000 -.1190

MACH (2) = 2.000 BETAT (4) = 3.940 X/LB 1.039
 PHI .000 -.1020
 40.000 -.1320

MACH (2) = 2.000 BETAT (5) = 5.970 X/LB 1.039
 PHI .000 -.1240
 40.000 -.1380

MACH (2) = 2.000 BETAT (6) = 8.010 X/LB 1.039
 PHI .000 -.1280
 40.000 -.1470

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

AMES 97-707 1A9 02A + S3 + T9 BODY FLAP

(RBOF58) (24 MAY 73)

PARAMETRIC DATA

ALPHAT = -4.0000 ORBINC = .5000
 RUDDER = .0000 ELEVON = .0000
 RUDFLR = .0000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

DEPENDENT VARIABLE CP

SECTION (1) BODY FLAP

MACH (1) = 1.555 BETAT (1) = -8.130
 X/LB 1.039
 PHI .000
 40.000 -0.1130
 40.000 -0.1780

MACH (1) = 1.555 BETAT (2) = -6.150
 X/LB 1.039
 PHI .000
 40.000 -0.0730
 40.000 -0.0940

MACH (2) = 1.555 BETAT (3) = -3.070
 X/LB 1.039
 PHI .000
 40.000 -0.0610
 40.000 -0.0840

MACH (3) = 1.555 BETAT (4) = 5.030
 X/LB 1.039
 PHI .000
 40.000 -0.0750
 40.000 -0.1400

MACH (3) = 1.555 BETAT (5) = 7.050
 X/LB 1.039
 PHI .000
 40.000 -0.1110
 40.000 -0.1110

MACH (3) = 1.555 BETAT (6) = 9.070
 X/LB 1.039
 PHI .000
 40.000 -0.1180
 40.000 -0.1840

MACH (2) = 2.040 BETAT (1) = -8.310
 X/LB 1.039
 PHI .000
 40.000 -0.1200
 40.000 -0.2070

MACH (2) = 2.040 BETAT (2) = -6.270
 X/LB 1.039
 PHI .000
 40.000 -0.1380
 40.000 -0.2110

DATE 21 SEP 73 TABULATED PRESSURE DATA - IA98

AMES 97-707 IAS CGA + S3 + T9 BODY FLAP

(RBOFD08)

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 2.0000 BETAT (3) = -4.2300 X/LB 1.039
PHI
.0000 -.1220
40.0000 -.1240

MACH (2) = 2.0000 BETAT (4) = 3.9200 X/LB 1.039
PHI
.0000 -.1180
40.0000 -.1450

MACH (2) = 2.0000 BETAT (5) = 5.9600 X/LB 1.039
PHI
.0000 -.1450
40.0000 -.1530

MACH (2) = 2.0000 BETAT (6) = 8.0100 X/LB 1.039
PHI
.0000 -.1440
40.0000 -.1580

AMES 97-707 1A9 02A + S3 + T9 BODY FLAP

(RBOFT09) (24 MAY 73)

REFERENCE DATA

SECF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LEFT = 39.8490 INCHES XMRP = .0000 INCHES
 RECF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHAT = -6.0000 OREINC = .5000
 RUDICE = .0000 ELEVON = .0000
 RUPTER = .0000

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -6.160
 X/LB 1.039
 PHI
 .0000 -0.1230
 40.0000 -0.1960

MACH (2) = 1.555 BETAT (2) = -6.170
 X/LB 1.039
 PHI
 .0000 -0.0930
 40.0000 -0.1070

MACH (3) = 1.555 BETAT (3) = -4.180
 X/LB 1.039
 PHI
 .0000 -0.0590
 40.0000 -0.0970

MACH (4) = 1.555 BETAT (4) = 3.640
 X/LB 1.039
 PHI
 .0000 -0.0790
 40.0000 -0.1370

MACH (5) = 1.555 BETAT (5) = 5.690
 X/LB 1.039
 PHI
 .0000 -0.0840
 40.0000 -0.1400

MACH (6) = 1.555 BETAT (6) = 7.740
 X/LB 1.039
 PHI
 .0000 -0.1390
 40.0000 -0.1230

MACH (2) = 2.000 BETAT (1) = -6.300
 X/LB 1.039
 PHI
 .0000 -0.1100
 40.0000 -0.2020

MACH (2) = 2.000 BETAT (2) = -6.300
 X/LB 1.039
 PHI
 .0000 -0.1420
 40.0000 -0.2160



DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B
AVES 37-707 149 02A + S3 + T9 BODY FLAP

(RBOFT19)

SECTION (1) BODY FLAP DEPENDENT VARIABLE CF

MACH (2) = 2.000	BETAT (3) = -4.250	X/LB	1.039
		PHI	
		.000	-.1260
		40.000	-.1190

MACH (2) = 2.000	BETAT (4) = 3.930	X/LB	1.039
		PHI	
		.000	-.1300
		40.000	-.1460

MACH (2) = 2.000	BETAT (5) = 6.020	X/LB	1.039
		PHI	
		.000	-.1400
		40.000	-.1650

440 90-740 1A9 0EA + S3 + T9 BODY FLAP

REFNO: 100 14 MAY 79

REFERENCE DATA

CHORD = 24.424 INCHES ANGLE = 26.13346 INCHES
SPAN = 35.1649 INCHES WING F. AREA = 100.000 INCHES
WING PLANFORM AREA = 100.000 INCHES
WING PLANFORM CHORD = 24.424 INCHES

STATISTICAL DATA

AUGUST 1 1979
SEPTEMBER 1 1979
OCTOBER 1 1979

COEFFICIENT VARIABLE OF

MACH	REFNO	BETA	COEFFICIENT	VARIABLE	OF
MACH (1) = 1.555	BETA (1) = 0.000		1.000		
MACH (2) = 2.000	BETA (2) = 0.000		1.000		
MACH (3) = 3.555	BETA (3) = 0.000		1.000		
MACH (4) = 5.000	BETA (4) = 0.000		1.000		
MACH (5) = 7.000	BETA (5) = 0.000		1.000		
MACH (6) = 8.000	BETA (6) = 0.000		1.000		
MACH (7) = 9.000	BETA (7) = 0.000		1.000		
MACH (8) = 10.000	BETA (8) = 0.000		1.000		
MACH (9) = 11.000	BETA (9) = 0.000		1.000		
MACH (10) = 12.000	BETA (10) = 0.000		1.000		

(RBOF11)

DATE 21 SEP 73
 CALCULATED PRESSURE DATA 1498
 AMES 97-717 1A9 OCA + S3 + T9 BODY FLAP

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (3) = -4.280	X/LB	PHI
		1.039	
		.144	-.1360
		40.144	-.1220
MACH (2) = 2.000	BETAT (4) = -.170	X/LB	PHI
		1.039	
		.144	-.1120
		40.144	-.1140
MACH (2) = 2.000	BETAT (5) = 3.940	X/LB	PHI
		1.039	
		.144	-.1370
		40.144	-.1500
MACH (2) = 2.000	BETAT (6) = 5.980	X/LB	PHI
		1.039	
		.144	-.1410
		40.144	-.1570
MACH (2) = 2.000	BETAT (7) = 8.050	X/LB	PHI
		1.039	
		.144	-.1360
		40.144	-.1590

AMES 97-707 1A9 OCA + S3 + T9 BODY FLAP

(50F11) (24 MAY 73)

REFERENCE DATA

XREF = 24.000 SQUARE XMRP = 25.5300 INCHES
 YREF = 25.000 INCHES YMRP = 0.0000 INCHES
 ZREF = 20.000 INCHES ZMRP = 0.0000 INCHES
 SCALE = 100.00 SCALE

PARAMETRIC DATA

ALPHA = -8.0000 COUING = 0.0000
 RUDDER = -15.0000 ELEVON = 0.0000
 RUDDLR = 0.0000

DEPENDENT VARIABLE CP

MACH	BETAT (1)	BETAT (2)	BETAT (3)	BETAT (4)	BETAT (5)	BETAT (6)	BETAT (7)	BETAT (8)
1.039	X/LB	1.039						
	PHI							
1.039	X/LB	-0.1240						
	PHI							
1.039	X/LB	1.039						
	PHI							
1.039	X/LB	-0.0780						
	PHI							
1.039	X/LB	-0.1240						
	PHI							
1.039	X/LB	1.039						
	PHI							
1.039	X/LB	-0.1160						
	PHI							
1.039	X/LB	-0.1370						
	PHI							
1.039	X/LB	1.039						
	PHI							
1.039	X/LB	-0.1060						
	PHI							
1.039	X/LB	-0.1350						
	PHI							
1.039	X/LB	1.039						
	PHI							
1.039	X/LB	-0.0980						
	PHI							
1.039	X/LB	-0.1390						
	PHI							
1.039	X/LB	1.039						
	PHI							
1.039	X/LB	-0.1040						
	PHI							
1.039	X/LB	-0.1490						
	PHI							
1.039	X/LB	1.039						
	PHI							
1.039	X/LB	-0.1570						
	PHI							
1.039	X/LB	-0.1620						
	PHI							
1.039	X/LB	1.039						
	PHI							
1.039	X/LB	-0.1370						
	PHI							
1.039	X/LB	-0.2100						
	PHI							

AMES 97-707 1A9 02A + S3 + T9 BODY FLAP

(RBOF11)

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (2) = -6.340	X/LB	PHI
		1.039	
		.000	-.1500
		40.000	-.2050
MACH (2) = 2.000	BETAT (3) = -4.280	X/LB	PHI
		1.039	
		.000	-.1250
		40.000	-.1280
MACH (2) = 2.000	BETAT (4) = -.180	X/LB	PHI
		1.039	
		.000	-.1120
		40.000	-.1220
MACH (2) = 2.000	BETAT (5) = 3.930	X/LB	PHI
		1.039	
		.000	-.1350
		40.000	-.1370
MACH (2) = 2.000	BETAT (6) = 5.980	X/LB	PHI
		1.039	
		.000	-.1190
		40.000	-.1420
MACH (2) = 2.000	BETAT (7) = 8.040	X/LB	PHI
		1.039	
		.000	-.1100
		40.000	-.1680

ANES 97-707 1A9 02A * S3 + T9 BODY FLAP

(RBOF12) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LPEF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

ALPHAT = -4.0000 ORBINC = .500
 RUDDER = -15.0000 ELEVON = .000
 RUDFLR = .0000

PARAMETRIC DATA

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.350	X/LB	PHI
		40.000	-0.0880
		40.000	-0.1670
MACH (1) = 1.555	BETAT (2) = -6.310	X/LB	PHI
		40.000	-0.0540
		40.000	-0.0930
MACH (1) = 1.555	BETAT (3) = -4.260	X/LB	PHI
		40.000	-0.0390
		40.000	-0.0710
MACH (1) = 1.555	BETAT (4) = -1.170	X/LB	PHI
		40.000	-0.1190
		40.000	-0.1400
MACH (1) = 1.555	BETAT (5) = 3.930	X/LB	PHI
		40.000	-0.0680
		40.000	-0.1060
MACH (1) = 1.555	BETAT (6) = 5.980	X/LB	PHI
		40.000	-0.0920
		40.000	-0.0930
MACH (1) = 1.555	BETAT (7) = 8.020	X/LB	PHI
		40.000	-0.1230
		40.000	-0.1200
MACH (2) = 2.000	BETAT (1) = -8.320	X/LB	PHI
		40.000	-0.1190
		40.000	-0.2100

AMES 97-707 1A9 OEA + S3 + T9 BODY FLAP

(RBOF12)

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (2) = -6.280	X/LB	1.039
		PHI	
		.000	-.1310
		40.000	-.2050
MACH (2) = 2.000	BETAT (3) = -4.240	X/LB	1.039
		PHI	
		.000	-.1120
		40.000	-.1270
MACH (2) = 2.000	BETAT (4) = -.170	X/LB	1.039
		PHI	
		.000	-.0920
		40.000	-.1110
MACH (2) = 2.000	BETAT (5) = 3.920	X/LB	1.039
		PHI	
		.000	-.1180
		40.000	-.1450
MACH (2) = 2.000	BETAT (6) = 5.960	X/LB	1.039
		PHI	
		.000	-.1130
		40.000	-.1470
MACH (2) = 2.000	BETAT (7) = 0.010	X/LB	1.039
		PHI	
		.000	-.1060
		40.000	-.1680

(RBOF13) (24 MAY 73)

ANES 97-707 IA9 O2A + S3 + T9 BODY FLAP

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
 RUDDER = -15.000 ELEVON = .000
 RUDFLR = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

DEPENDENT VARIABLE CP

SECTION (1) BODY FLAP	MACH (1) = 1.555	BETAT (1) = -8.310	X/LB	PHI
			1.039	
			.000	-.0610
			40.000	-.1410
MACH (1) = 1.555	BETAT (2) = -6.280	X/LB	1.039	
		PHI		
		.000	-.0240	
		40.000	-.0250	
MACH (1) = 1.555	BETAT (3) = -4.240	X/LB	1.039	
		PHI		
		.000	-.0340	
		40.000	-.0340	
MACH (1) = 1.555	BETAT (4) = -.140	X/LB	1.039	
		PHI		
		.000	-.0730	
		40.000	-.0730	
MACH (1) = 1.555	BETAT (5) = 3.940	X/LB	1.039	
		PHI		
		.000	-.0380	
		40.000	-.0960	
MACH (1) = 1.555	BETAT (6) = 5.990	X/LB	1.039	
		PHI		
		.000	-.0460	
		40.000	-.0650	
MACH (1) = 1.555	BETAT (7) = 8.030	X/LB	1.039	
		PHI		
		.000	-.0840	
		40.000	-.0880	
MACH (2) = 2.000	BETAT (1) = -8.300	X/LB	1.039	
		PHI		
		.000	-.0710	
		40.000	-.1750	

AMES 97-707 1A9 ORA + S3 + T9 BODY FLAP

(RBOF13)

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (2) = -6.260	X/LB	1.039
		PHI	
		.000	-.0890
		40.000	-.1530
MACH (2) = 2.000	BETAT (3) = -4.220	X/LB	1.039
		PHI	
		.000	-.0760
		40.000	-.1000
MACH (2) = 2.000	BETAT (4) = -.140	X/LB	1.039
		PHI	
		.000	-.0750
		40.000	-.1040
MACH (2) = 2.000	BETAT (5) = 3.930	X/LB	1.039
		PHI	
		.000	-.0880
		40.000	-.1210
MACH (2) = 2.000	BETAT (6) = 5.980	X/LB	1.039
		PHI	
		.000	-.0870
		40.000	-.1260
MACH (2) = 2.000	BETAT (7) = 9.020	X/LB	1.039
		PHI	
		.000	-.0630
		40.000	-.1230

REFERENCE DATA

SREF = 2.4210 SQ.FT. YMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 PRF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .03000 SCALE

SECTION (1) BODY FLAP

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.300

X/LB 1.039
 PHI .000 -.0190
 40.000 -.0530

MACH (1) = 1.555 BETAT (2) = -6.260

X/LB 1.039
 PHI .000 -.0100
 40.000 -.0120

MACH (1) = 1.555 BETAT (3) = -4.220

X/LB 1.039
 PHI .000 -.0440
 40.000 -.0160

MACH (1) = 1.555 BETAT (4) = -.120

X/LB 1.039
 PHI .000 -.0470
 40.000 -.0710

MACH (1) = 1.555 BETAT (5) = 3.950

X/LB 1.039
 PHI .000 -.0330
 40.000 -.0920

MACH (1) = 1.555 BETAT (6) = 6.000

X/LB 1.039
 PHI .000 -.0300
 40.000 -.0940

MACH (1) = 1.555 BETAT (7) = 8.040

X/LB 1.039
 PHI .000 -.0340
 40.000 -.1520

MACH (2) = 2.000 BETAT (1) = -8.290

X/LB 1.039
 PHI .000 -.0330
 40.000 -.1670

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
 RUDPER = -15.000 ELEVON = .000
 RUDFLR = .000

(R80F14)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B
 AMES 97-707 1A9 O2A + S3 + T9 BODY FLAP

DEPENDENT VARIABLE CP

SECTION (1) BODY FLAP

MACH (2) =	BETAT (2) =	X/LB	PHI
2.000	-6.250	1.039	.000
			40.000
			-0.470
			-0.1190
2.000	-4.250	1.039	.000
			40.000
			-0.560
			-0.0950
2.000	-0.130	1.039	.000
			40.000
			-0.580
			-0.0890
2.000	3.950	1.039	.000
			40.000
			-0.710
			-0.0970
2.000	5.990	1.039	.000
			40.000
			-0.700
			-0.1130
2.000	8.040	1.039	.000
			40.000
			-0.770
			-0.1080

AMES 97-707 1A9 OSA + S3 + T9 BODY FLAP

(RBOF15) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.3300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .500
 RUDDER = -15.000 ELEWON = .000
 RUDFLR = .000

SECTION (1) BODY FLAP

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.320 X/LB 1.039
 PHI
 .000 -.0150
 40.000 -.0630

MACH (1) = 1.555 BETAT (2) = -6.280 X/LB 1.039
 PHI
 .000 -.0240
 40.000 .0300

MACH (1) = 1.555 BETAT (3) = -4.230 X/LB 1.039
 PHI
 .000 -.0360
 40.000 .0070

MACH (1) = 1.555 BETAT (4) = -.120 X/LB 1.039
 PHI
 .000 -.0310
 40.000 -.0580

MACH (1) = 1.555 BETAT (5) = 3.970 X/LB 1.039
 PHI
 .000 -.0420
 40.000 -.0760

MACH (1) = 1.555 BETAT (6) = 6.030 X/LB 1.039
 PHI
 .000 -.0410
 40.000 -.1060

MACH (1) = 1.555 BETAT (7) = 8.080 X/LB 1.039
 PHI
 .000 -.0320
 40.000 -.1450

MACH (2) = 2.000 BETAT (1) = -6.260 X/LB 1.039
 PHI
 .000 -.0370
 40.000 -.1110

DATE 21 SEP 73

TABLATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 OEA + S3 + T9 BODY FLAP

(RBOF15)

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -4.210 X/LB 1.039
 PHI .000 -.0390
 40.000 -.0920

MACH (2) = 2.000 BETAT (3) = -1.130 X/LB 1.039
 PHI .000 -.0420
 40.000 -.0690

MACH (2) = 2.000 BETAT (4) = 3.970 X/LB 1.039
 PHI .000 -.0900
 40.000 -.0830

MACH (2) = 2.000 BETAT (5) = 6.020 X/LB 1.039
 PHI .000 -.0420
 40.000 -.1020

MACH (2) = 2.000 BETAT (6) = 8.070 X/LB 1.039
 PHI .000 -.0430
 40.000 -.0960

AMES 97-707 IAS OBA + S3 + T9 BODY FLAP

(RBOF16) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .03125 SCALE

PARAMETRIC DATA

ALPHAT = 8.0000 ORBINC = .5000
 RUDDER = -15.0000 ELEVON = .0000
 RUDEFL = .0000

SECTION (1) BODY FLAP

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.390 X/LB 1.039
 PHI .0000 .0040
 40.0000 -.0350

MACH (1) = 1.555 BETAT (2) = -6.290 X/LB 1.039
 PHI .0000 -.0090
 40.0000 .0400

MACH (1) = 1.555 BETAT (3) = -4.240 X/LB 1.039
 PHI .0000 -.0240
 40.0000 .0180

MACH (1) = 1.555 BETAT (4) = -2.110 X/LB 1.039
 PHI .0000 -.0200
 40.0000 -.0460

MACH (1) = 1.555 BETAT (5) = 4.000 X/LB 1.039
 PHI .0000 -.0330
 40.0000 -.0720

MACH (1) = 1.555 BETAT (6) = 6.060 X/LB 1.039
 PHI .0000 -.0360
 40.0000 -.1090

MACH (1) = 1.555 BETAT (7) = 8.120 X/LB 1.039
 PHI .0000 -.0290
 40.0000 -.1320

MACH (2) = 2.000 BETAT (1) = -8.340 X/LB 1.039
 PHI .0000 .0400
 40.0000 .0400

AMES 97-737 1A9 OCA + S3 + T9 BODY FLAP

(RBOF16)

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.270 X/LB 1.039
 PHI .000 -.0340
 40.000 -.0920

MACH (2) = 2.000 BETAT (3) = -4.220 X/LB 1.039
 PHI .000 -.0260
 40.000 -.0860

MACH (2) = 2.000 BETAT (4) = -.120 X/LB 1.039
 PHI .000 -.0270
 40.000 -.0720

MACH (2) = 2.000 BETAT (5) = 3.990 X/LB 1.039
 PHI .000 -.0400
 40.000 -.0710

MACH (2) = 2.000 BETAT (6) = 6.050 X/LB 1.039
 PHI .000 -.0470
 40.000 -.0950

MACH (2) = 2.000 BETAT (7) = 8.110 X/LB 1.039
 PHI .000 -.0420
 40.000 -.0920

AMES 97-707 IAS OCA + S3 + T9 BODY FLAP

(RBOF17) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 26.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .03140 SCALE

PARAMETRIC DATA

ALPHAT = -8.0000 ORBINC = .5000
 RUDDER = -10.0000 ELEVON = .0000
 RUDFLR = .0000

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -0.410	X/LB	1.039	PHI
		.0000	-.1530	
		40.0000	-.1650	
MACH (1) = 1.555	BETAT (2) = -6.360	X/LB	1.039	PHI
		.0000	-.1110	
		40.0000	-.1130	
MACH (1) = 1.555	BETAT (3) = -4.300	X/LB	1.039	PHI
		.0000	-.0910	
		40.0000	-.1210	
MACH (1) = 1.555	BETAT (4) = -.180	X/LB	1.039	PHI
		.0000	-.1080	
		40.0000	-.1310	
MACH (1) = 1.555	BETAT (5) = 3.930	X/LB	1.039	PHI
		.0000	-.0870	
		40.0000	-.1310	
MACH (1) = 1.555	BETAT (6) = 5.990	X/LB	1.039	PHI
		.0000	-.0810	
		40.0000	-.1490	
MACH (1) = 1.555	BETAT (7) = 6.050	X/LB	1.039	PHI
		.0000	-.1640	
		40.0000	-.1470	
MACH (2) = 2.000	BETAT (1) = -0.380	X/LB	1.039	PHI
		.0000	-.1400	
		40.0000	-.1970	

AMES 97-707 1A9 O2A + S3 + T9 BODY FLAP

(RBOF17)

SECTION (1) BODY FLAP	DEPENDENT VARIABLE CP	
MACH (2) = 2.000 BETAT (2) = -6.330	X/LB 1.039	PHI
	.000 -.1440	40.000 -.1690
MACH (2) = 2.000 BETAT (3) = -4.280	X/LB 1.039	PHI
	.000 -.1260	40.000 -.1160
MACH (2) = 2.000 BETAT (4) = -.170	X/LB 1.039	PHI
	.000 -.1200	40.000 -.1150
MACH (2) = 2.000 BETAT (5) = 3.930	X/LB 1.039	PHI
	.000 -.1390	40.000 -.1320
MACH (2) = 2.000 BETAT (6) = 5.980	X/LB 1.039	PHI
	.000 -.1510	40.000 -.1560
MACH (2) = 2.000 BETAT (7) = 8.040	X/LB 1.039	PHI
	.000 -.1460	40.000 -.1530

(RBOF16) (24 MAY 73)

DATE 21 SEP 73 TABULATED PRESSURE DATA - IA98
AMES 97-707 IA9 O2A + S3 + T9 BODY FLAP

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.340	X/LB	PHI
		1.039	.000
			40.000
			-0.1570
			-0.1450
MACH (1) = 1.555	BETAT (2) = -6.300	X/LB	PHI
		1.039	.000
			40.000
			-0.1070
			-0.1050
MACH (1) = 1.555	BETAT (3) = -4.250	X/LB	PHI
		1.039	.000
			40.000
			-0.0560
			-0.0870
MACH (1) = 1.555	BETAT (4) = -2.160	X/LB	PHI
		1.039	.000
			40.000
			-0.0820
			-0.1300
MACH (1) = 1.555	BETAT (5) = 0.930	X/LB	PHI
		1.039	.000
			40.000
			-0.0640
			-0.1390
MACH (1) = 1.555	BETAT (6) = 5.980	X/LB	PHI
		1.039	.000
			40.000
			-0.1120
			-0.1340
MACH (1) = 1.555	BETAT (7) = 8.020	X/LB	PHI
		1.039	.000
			40.000
			-0.1280
			-0.1290
MACH (2) = 2.000	BETAT (1) = -8.320	X/LB	PHI
		1.039	.000
			40.000
			-0.1210
			-0.2030

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .500
RUDDER = -10.000 ELEVON = .050
RUOFLR = .000

AMES 97-757 IA9 ORA + S3 + T9 BODY FLAP

(RBOF18)

SECTION : 1) BODY FLAP

DEPENDENT VARIABLE CF

MACH (2) = 2.000 BETAT (2) = -6.275

X/LB	1.039
PHI	
.000	-.1320
40.000	-.2000

MACH (2) = 2.000 BETAT (3) = -4.230

X/LB	1.039
PHI	
.000	-.1100
40.000	-.1210

MACH (2) = 2.000 BETAT (4) = -3.160

X/LB	1.039
PHI	
.000	-.1000
40.000	-.1120

MACH (2) = 2.000 BETAT (5) = 3.920

X/LB	1.039
PHI	
.000	-.1320
40.000	-.1420

MACH (2) = 2.000 BETAT (6) = 5.960

X/LB	1.039
PHI	
.000	-.1470
40.000	-.1520

MACH (2) = 2.000 BETAT (7) = 8.010

X/LB	1.039
PHI	
.000	-.1230
40.000	-.1590

(RBCF19) (24 MAY 73)

DATE 21 SEP 73 TABULATED PRESSURE DATA - IASB
AMES 97-707 IAS OEA + S3 + T9 BODY FLAP

REFERENCE DATA

SREF = 2.4210 SR.FT. XMRP = 20.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .000
RUDDER = -10.000 ELEVON = .000
RUDFLR = .000

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -6.320	X/LB	PHI
		1.039	.000
			40.000
			-0.0940
			-0.1380
MACH (1) = 1.555	BETAT (2) = -6.270	X/LB	PHI
		1.039	.000
			40.000
			-0.0690
			-0.0750
MACH (1) = 1.555	BETAT (3) = -4.240	X/LB	PHI
		1.039	.000
			40.000
			-0.0410
			-0.0570
MACH (1) = 1.555	BETAT (4) = -1.140	X/LB	PHI
		1.039	.000
			40.000
			-0.0630
			-0.1160
MACH (1) = 1.555	BETAT (5) = 3.950	X/LB	PHI
		1.039	.000
			40.000
			-0.0510
			-0.1190
MACH (1) = 1.555	BETAT (6) = 5.990	X/LB	PHI
		1.039	.000
			40.000
			-0.0490
			-0.1070
MACH (1) = 1.555	BETAT (7) = 6.040	X/LB	PHI
		1.039	.000
			40.000
			-0.0630
			-0.1330
MACH (2) = 2.000	BETAT (1) = -6.300	X/LB	PHI
		1.039	.000
			40.000
			-0.0990
			-0.1570

(RBOF19)

DATE 21 SEP 72 TABULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 02A + S3 + T9 BODY FLAP

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (2) =	BETAT (2) =	X/LB	PHI
2.000	-6.260	1.039	-0.9930
			40.000 -0.1450
MACH (2) =	BETAT (3) =	X/LB	PHI
2.000	-4.220	1.039	-0.7800
			40.000 -0.5950
MACH (2) =	BETAT (4) =	X/LB	PHI
2.000	-1.140	1.039	-0.9860
			40.000 -0.1020
MACH (2) =	BETAT (5) =	X/LB	PHI
2.000	3.930	1.039	-0.9950
			40.000 -0.1250
MACH (2) =	BETAT (6) =	X/LB	PHI
2.000	5.980	1.039	-0.1040
			40.000 -0.1350
MACH (2) =	BETAT (7) =	X/LB	PHI
2.000	8.020	1.039	-0.1040
			40.000 -0.1350

AMES 97-707 1A9 02A + S3 + T9 BODY FLAP

(RBOF20) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 98.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHAT = 4.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUOFLR = .000

PARAMETRIC DATA

DEPENDENT VARIABLE CP

SECTION (1) BODY FLAP

MACH (1) = 1.555	BETAT (1) = -6.300	X/LB	PHI
		1.039	.000
			-0.0420
		40.000	-0.0950
MACH (1) = 1.555	BETAT (2) = -6.270	X/LB	PHI
		1.039	.000
			-0.0120
		40.000	-0.0130
MACH (1) = 1.555	BETAT (3) = -4.220	X/LB	PHI
		1.039	.000
			-0.0380
		40.000	-0.0190
MACH (1) = 1.555	BETAT (4) = -.130	X/LB	PHI
		1.039	.000
			-0.0320
		40.000	-0.0790
MACH (1) = 1.555	BETAT (5) = 3.960	X/LB	PHI
		1.039	.000
			-0.0470
		40.000	-0.0930
MACH (1) = 1.555	BETAT (6) = 6.010	X/LB	PHI
		1.039	.000
			-0.0290
		40.000	-0.0980
MACH (1) = 1.555	BETAT (7) = 6.060	X/LB	PHI
		1.039	.000
			-0.0610
		40.000	-0.1490
MACH (2) = 2.000	BETAT (1) = -0.260	X/LB	PHI
		1.039	.000
			-0.0710
		40.000	-0.1720

A

AMES 97-707 1A9 CRA + S3 + T9 BODY FLAP

(RBOFRD)

SECTION (3) BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (2) = -5.240	X/LB	1.039
		PHI	
		.000	-.0660
		40.000	-.1400
MACH (2) = 2.000	BETAT (3) = -4.200	X/LB	1.039
		PHI	
		.000	-.0610
		40.000	-.0800
MACH (2) = 2.000	BETAT (4) = -.130	X/LB	1.039
		PHI	
		.000	-.0790
		40.000	-.0860
MACH (2) = 2.000	BETAT (5) = 3.990	X/LB	1.039
		PHI	
		.000	-.0900
		40.000	-.1060
MACH (2) = 2.000	BETAT (6) = 5.990	X/LB	1.039
		PHI	
		.000	-.1000
		40.000	-.1180
MACH (2) = 2.000	BETAT (7) = 6.040	X/LB	1.039
		PHI	
		.000	-.0940
		40.000	-.1100

AMES 97-707 IAS OSA + S3 + T9 BODY FLAP

(RBOF21) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 26.9300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -0.330	X/LB	1.039
		PHI	
		.000	-.0290
		40.000	-.0760
MACH (1) = 1.555	BETAT (2) = -6.290	X/LB	1.039
		PHI	
		.000	-.0220
		40.000	.0080
MACH (1) = 1.555	BETAT (3) = -4.230	X/LB	1.039
		PHI	
		.000	-.0310
		40.000	-.0720
MACH (1) = 1.555	BETAT (4) = -.120	X/LB	1.039
		PHI	
		.000	-.0470
		40.000	-.0680
MACH (1) = 1.555	BETAT (5) = 3.980	X/LB	1.039
		PHI	
		.000	-.0360
		40.000	-.0930
MACH (1) = 1.555	BETAT (6) = 6.040	X/LB	1.039
		PHI	
		.000	-.0900
		40.000	-.1140
MACH (1) = 1.555	BETAT (7) = 0.110	X/LB	1.039
		PHI	
		.000	-.0700
		40.000	-.1460
MACH (2) = 2.140	BETAT (1) = -0.310	X/LB	1.039
		PHI	
		.000	-.0620
		40.000	-.1630

AMES 97-707 1A9 O2A + S3 + T9 BODY FLAP

(RBOF21)

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.260 X/LB 1.039
 PHI
 .000 -.0600
 40.000 -.1380

MACH (2) = 2.000 BETAT (3) = -4.210 X/LB 1.039
 PHI
 .000 -.0480
 40.000 -.0910

MACH (2) = 2.000 BETAT (4) = -.120 X/LB 1.039
 PHI
 .000 -.0460
 40.000 -.0660

MACH (2) = 2.044 BETAT (5) = 3.970 X/LB 1.039
 PHI
 .000 -.0740
 40.000 -.0910

MACH (2) = 2.000 BETAT (6) = 6.020 X/LB 1.039
 PHI
 .000 -.0940
 40.000 -.1050

MACH (2) = 2.000 BETAT (7) = 8.070 X/LB 1.039
 PHI
 .000 -.0800
 40.000 -.0970

(RBOF22) (24 MAY 73)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B
 AVES 97-707 1A9 OSA + S3 + T9 BODY FLAP

PARAMETRIC DATA

ALPHAT = 0.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUOFLR = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8480 INCHES YMRP = .0000 INCHES
 BREF = 39.8480 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -0.360	X/LB	PHI	1.039
		.000	-0.0060	
		40.000	-0.0470	
MACH (1) = 1.555	BETAT (2) = -6.310	X/LB	PHI	1.039
		.000	-0.0100	
		40.000	0.0240	
MACH (1) = 1.555	BETAT (3) = -4.230	X/LB	PHI	1.039
		.000	-0.0280	
		40.000	0.0100	
MACH (1) = 1.555	BETAT (4) = -0.110	X/LB	PHI	1.039
		.000	-0.0320	
		40.000	-0.0510	
MACH (1) = 1.555	BETAT (5) = 3.940	X/LB	PHI	1.039
		.000	-0.0250	
		40.000	-0.0720	
MACH (1) = 1.555	BETAT (6) = 6.060	X/LB	PHI	1.039
		.000	-0.0250	
		40.000	-0.1040	
MACH (1) = 1.555	BETAT (7) = 6.120	X/LB	PHI	1.039
		.000	-0.0410	
		40.000	-0.1370	
MACH (2) = 2.000	BETAT (1) = -0.330	X/LB	PHI	1.039
		.000	-0.0490	
		40.000	-0.1580	

(RBOF22)

DATE 21 SEP 72

ADJUSTED LIFETIME DATA - 1A98

AMES 97-7U7 1A9 OBA + S3 + T9 BODY FLAP

SECTION (1) BODY FLAP

MACH (2) = 2.000 BETAT (2) = -5.280
 X/1B 1.039
 PHI
 .000 -0.0420
 40.000 -0.1150

MACH (2) = 2.000 BETAT (3) = -4.220
 X/1B 1.039
 PHI
 .000 -0.0360
 40.000 -0.0850

MACH (2) = 2.100 BETAT (4) = -3.110
 X/1B 1.030
 PHI
 .000 -0.0310
 40.000 -0.0690

MACH (2) = 2.100 BETAT (5) = 4.100
 X/1B 1.039
 PHI
 .000 -0.0620
 40.000 -0.0770

MACH (2) = 2.000 BETAT (6) = 6.150
 X/1B 1.039
 PHI
 .000 -0.0670
 40.000 -0.1020

MACH (2) = 2.000 BETAT (7) = 8.210
 X/1B 1.039
 PHI
 .000 -0.0600
 40.000 -0.0920

DEPENDENT VARIABLE OF

REFERENCE DATA

SREF = 2.4210 SQ.FT. XGRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YGRP = .0000 INCHES
 BREF = 39.8490 INCHES ZGRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -8.0000 ORBINC = .0000
 RUDDER = 15.0000 ELEVON = .0000
 RUDFLR = .0000

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -6.400	X/LB	PHI
	1.039	.000
		40.000
		-0.1750
		-0.1750
MACH (1) = 1.555 BETAT (2) = -6.360	X/LB	PHI
	1.039	.000
		40.000
		-0.1290
		-0.1220
MACH (1) = 1.555 BETAT (3) = -6.250	X/LB	PHI
	1.039	.000
		40.000
		-0.1290
		-0.1320
MACH (1) = 1.555 BETAT (4) = -6.170	X/LB	PHI
	1.039	.000
		40.000
		-0.1370
		-0.1490
MACH (1) = 1.555 BETAT (5) = 3.940	X/LB	PHI
	1.039	.000
		40.000
		-0.1000
		-0.1360
MACH (1) = 1.555 BETAT (6) = 6.060	X/LB	PHI
	1.039	.000
		40.000
		-0.1820
		-0.1900
MACH (2) = 2.000 BETAT (1) = -6.380	X/LB	PHI
	1.039	.000
		40.000
		-0.1420
		-0.1960
MACH (2) = 2.000 BETAT (2) = -6.330	X/LB	PHI
	1.039	.000
		40.000
		-0.1470
		-0.1910

(RBOF23)

SECTION: BODY FLAP
CASE 97-717 1A9 02A + S3 + TS BODY FLAP

DEPENDENT VARIABLE: CP

WACH (1)	2.0000	STAT (1)	1.039	X/LB	1.039
				PHI	
				.0000	-.1260
				40.0000	-.1210

WACH (2)	2.0000	STAT (2)	1.039	X/LB	1.039
				PHI	
				.0000	-.1240
				40.0000	-.1190

WACH (3)	2.0000	STAT (3)	1.039	X/LB	1.039
				PHI	
				.0000	-.1400
				40.0000	-.1280

WACH (4)	2.0000	STAT (4)	1.039	X/LB	1.039
				PHI	
				.0000	-.1480
				40.0000	-.1360

WACH (5)	2.0000	STAT (5)	1.039	X/LB	1.039
				PHI	
				.0000	-.1450
				40.0000	-.1480

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 20.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .03000 SCALE

DEPENDENT VARIABLE CP

SECTION (1) BODY FLAP

MACH (1) = 1.555	BETAT (1) = -8.330	X/LB	PHI
		1.039	.000
			40.000
			-.1680
			-.1580
MACH (1) = 1.555	BETAT (2) = -6.290	X/LB	PHI
		1.039	.000
			40.000
			-.1220
			-.1060
MACH (1) = 1.555	BETAT (3) = -4.240	X/LB	PHI
		1.039	.000
			40.000
			-.0510
			-.1000
MACH (1) = 1.555	BETAT (4) = -.150	X/LB	PHI
		1.039	.000
			40.000
			-.1270
			-.1390
MACH (1) = 1.555	BETAT (5) = 3.940	X/LB	PHI
		1.039	.000
			40.000
			-.0560
			-.1310
MACH (1) = 1.555	BETAT (6) = 5.980	X/LB	PHI
		1.039	.000
			40.000
			-.0870
			-.1390
MACH (1) = 1.555	BETAT (7) = 8.030	X/LB	PHI
		1.039	.000
			40.000
			-.1510
			-.1140
MACH (2) = 2.000	BETAT (1) = -8.310	X/LB	PHI
		1.039	.000
			40.000
			-.1250
			-.1990

PARAMETRIC DATA

ALPHAT = -4.1470 ORBINC = .900
 RUDDER = 15.020 ELEVON = .000
 RUDFLR = .000

COMPUTED PRESSURE DATA - 1A98

AMES 97-707 1A9 C2A + 33 + 79 BODY FLAP

(RBOF24)

DEPENDENT VARIABLE CP

SECTION: BODY FLAP

MACH (2) = 2.0000	SECT (2) = -6.070	X/LB	1.039
		PHI	
		.020	-.1391
		40.000	-.1820
MACH (2) = 2.0000	SECT (3) = -4.130	X/LB	1.039
		PHI	
		.020	-.1170
		40.000	-.1260
MACH (2) = 2.0000	SECT (4) = -1.000	X/LB	1.039
		PHI	
		.020	-.1020
		40.000	-.1150
MACH (2) = 2.0000	SECT (5) = 3.500	X/LB	1.039
		PHI	
		.020	-.1300
		40.000	-.1320
MACH (2) = 2.0000	SECT (6) = 5.500	X/LB	1.039
		PHI	
		.020	-.1440
		40.000	-.1510
MACH (2) = 2.0000	SECT (7) = 7.000	X/LB	1.039
		PHI	
		.020	-.1310
		40.000	-.1590

AMES 97-707 IAG OEA + S3 + T9 BODY FLAP

(RBOF25) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XGRP = 26.5300 INCHES
 LREF = 39.6490 INCHES YGRP = .0000 INCHES
 BREF = 39.6490 INCHES ZGRP = .0000 INCHES
 SCALE = .0950 SCALE

PARAMETRIC DATA

ALPHAT = .020 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) BODY FLAP

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.320	X/LB	PHI
		1.039	.000
			40.000
			-0.0820
			-0.1370
MACH (1) = 1.555	BETAT (2) = -6.270	X/LB	PHI
		1.039	.000
			40.000
			-0.0540
			-0.0630
MACH (1) = 1.555	BETAT (3) = -4.240	X/LB	PHI
		1.039	.000
			40.000
			-0.0500
			-0.0530
MACH (1) = 1.555	BETAT (4) = -2.130	X/LB	PHI
		1.039	.000
			40.000
			-0.0540
			-0.1090
MACH (1) = 1.555	BETAT (5) = 3.950	X/LB	PHI
		1.039	.000
			40.000
			-0.0430
			-0.1060
MACH (1) = 1.555	BETAT (6) = 5.990	X/LB	PHI
		1.039	.000
			40.000
			-0.0470
			-0.0990
MACH (1) = 1.555	BETAT (7) = 8.040	X/LB	PHI
		1.039	.000
			40.000
			-0.1090
			-0.1130
MACH (2) = 2.000	BETAT (1) = -6.290	X/LB	PHI
		1.039	.000
			40.000
			-0.0850
			-0.1420

DATE 21 SEP 7.

TABULATED PRESSURE DATA - 1A98

(RBOF25)

APES 97-707 1A9 02A + S3 + T9 BODY FLAP

DEPENDENT VARIABLE CF

SECTION (1) BODY FLAP

MACH (2) = 2.0000 BETAT (2) = -5.2500 X/LB 1.039
 PHI
 .000 -1.0810
 40.000 -1.1260

MACH (2) = 2.0000 BETAT (3) = -4.2100 X/LB 1.039
 PHI
 .000 -1.0860
 40.000 -1.1970

MACH (2) = 2.0000 BETAT (4) = -3.1700 X/LB 1.039
 PHI
 .000 -1.0950
 40.000 -1.0980

MACH (2) = 2.0000 BETAT (5) = -2.1300 X/LB 1.039
 PHI
 .000 -1.0940
 40.000 -1.1040

MACH (2) = 2.0000 BETAT (6) = -1.0900 X/LB 1.039
 PHI
 .000 -1.1070
 40.000 -1.1340

AMES 97-707 1A9 02A + S3 + T9 BODY FLAP

(R80F26) (24 MAY 73)

REFERENCE DATA

SRCP = 2.4210 SQ.FT. XGRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YGRP = .0000 INCHES
 BRCP = 39.8490 INCHES ZGRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 4.0000 ORBTNC = .0000
 RUDDER = 15.0000 ELEVON = .0000
 RUOFLR = .0000

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -6.300	X/LB	PHI
		1.059	1.059
		.0000	-.0410
		40.000	-.0970
MACH (1) = 1.555	BETAT (2) = -6.280	X/LB	PHI
		1.059	1.059
		.0000	-.0179
		40.000	-.0060
MACH (1) = 1.555	BETAT (3) = -4.220	X/LB	PHI
		1.059	1.059
		.0000	-.0340
		40.000	-.0150
MACH (1) = 1.555	BETAT (4) = -.120	X/LB	PHI
		1.059	1.059
		.0000	-.0460
		40.000	-.0760
MACH (1) = 1.555	BETAT (5) = 3.960	X/LB	PHI
		1.059	1.059
		.0000	-.0370
		40.000	-.0660
MACH (1) = 1.555	BETAT (6) = 6.010	X/LB	PHI
		1.059	1.059
		.0000	-.0170
		40.000	-.0690
MACH (1) = 1.555	BETAT (7) = 6.050	X/LB	PHI
		1.059	1.059
		.0000	-.0310
		40.000	-.1480
MACH (2) = 2.000	BETAT (1) = -8.280	X/LB	PHI
		1.059	1.059
		.0000	-.0630
		40.000	-.1620

AMES 97-707 IA9 CEA + S3 + T9 BODY FLAP

(RBOF26)

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -0.230

X/LB	1.039
PHI	
.000	-.0650
40.000	-.1410

MACH (2) = 2.000 BETAT (3) = -0.250

X/LB	1.039
PHI	
.000	-.0640
40.000	-.0820

MACH (2) = 2.000 BETAT (4) = -0.270

X/LB	1.039
PHI	
.000	-.0650
40.000	-.0870

MACH (2) = 2.000 BETAT (5) = 0.190

X/LB	1.039
PHI	
.000	-.0730
40.000	-.0900

MACH (2) = 2.000 BETAT (6) = 0.200

X/LB	1.039
PHI	
.000	-.0680
40.000	-.1170

MACH (2) = 2.000 BETAT (7) = 0.200

X/LB	1.039
PHI	
.000	-.1050
40.000	-.1130

AVES 97-707 1A9 CRA + S3 + T9 BODY FLAP

(RBOF27) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) BODY FLAP

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.330	X/LB	PHI
		1.039	.000
			-0.0250
		40.000	-0.0600
MACH (1) = 1.555	BETAT (2) = -6.278	X/LB	PHI
		1.039	.000
			-0.0250
		40.000	-0.0130
MACH (1) = 1.555	BETAT (3) = -4.230	X/LB	PHI
		1.039	.000
			-0.0250
		40.000	-0.0080
MACH (1) = 1.555	BETAT (4) = -2.110	X/LB	PHI
		1.039	.000
			-0.0378
		40.000	-0.0680
MACH (1) = 1.555	BETAT (5) = 3.990	X/LB	PHI
		1.039	.000
			-0.0350
		40.000	-0.0790
MACH (1) = 1.555	BETAT (6) = 6.080	X/LB	PHI
		1.039	.000
			-0.0280
		40.000	-0.1030
MACH (1) = 1.555	BETAT (7) = 8.080	X/LB	PHI
		1.039	.000
			-0.0310
		40.000	-0.1450
MACH (2) = 2.000	BETAT (1) = -8.300	X/LB	PHI
		1.039	.000
			-0.0560
		40.000	-0.1700

DATA 2: SEE ... CALCULATED PRESSURE DATA - IA98

RES 97-707 1A9 02A + S3 + TO BODY FLAP

(RBOF27)

SECTION (1) BODY FLAP DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.150

X/LB	1.039
PHI	
.000	-.0480
40.000	-.1370

MACH (2) = 2.000 BETAT (3) = -4.200

X/LB	1.039
PHI	
.000	-.0480
40.000	-.0930

MACH (2) = 2.000 BETAT (4) = -.120

X/LB	1.039
PHI	
.000	-.0420
40.000	-.0630

MACH (2) = 2.000 BETAT (5) = 3.970

X/LB	1.039
PHI	
.000	-.0680
40.000	-.1040

MACH (2) = 2.000 BETAT (6) = 6.030

X/LB	1.039
PHI	
.000	-.0840
40.000	-.0970

MACH (2) = 2.000 BETAT (7) = 8.070

X/LB	1.039
PHI	
.000	-.0940
40.000	-.1010

(RBOF28) (24 MAY 73)

TABLATED PRESSURE DATA - 1A98
ANES 97-707 1A9 02A + 93 + T9 BODY FLAP

PARAMETRIC DATA

ALPHAT = 8.000 CRBINC = .000
RUDDER = 15.000 ELEVON = .000
RUOFLR = .000

REFERENCE DATA

SRFP = 2.4210 98.FT. XGRP = 28.5300 INCHES
LREF = 39.8490 INCHES YGRP = .0000 INCHES
DRFP = 39.8490 INCHES ZGRP = .0000 INCHES
SCALE = .0300 SCALE

DEPENDENT VARIABLE CP

SECTION (1) BODY FLAP	MACH (1) = 1.555	BETAT (1) = -0.350	X/LB PHI	1.039
			.000	-.0220
			40.000	-.0460
MACH (1) = 1.555	BETAT (2) = -0.300	X/LB PHI	1.039	
		.000	-.0140	
		40.000	.0150	
MACH (1) = 1.555	BETAT (3) = -4.230	X/LB PHI	1.039	
		.000	-.0190	
		40.000	.0070	
MACH (1) = 1.555	BETAT (4) = -.110	X/LB PHI	1.039	
		.000	-.0260	
		40.000	-.0520	
MACH (1) = 1.555	BETAT (5) = 4.000	X/LB PHI	1.039	
		.000	-.0150	
		40.000	-.0640	
MACH (1) = 1.555	BETAT (6) = 6.060	X/LB PHI	1.039	
		.000	-.0250	
		40.000	-.0920	
MACH (1) = 1.555	BETAT (7) = 0.150	X/LB PHI	1.039	
		.000	-.0210	
		40.000	-.1330	
MACH (2) = 2.000	BETAT (1) = -0.320	X/LB PHI	1.039	
		.000	-.0470	
		40.000	-.1620	

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B

AMES 97-707 IA9 ORA + S3 + T9 BODY FLAP

(RBOF28)

SECTION (1) BODY FLAP DEFENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.260 X/LB 1.039
 PHI .000 -.0350
 40.000 -.1140

MACH (2) = 2.000 BETAT (3) = -4.210 X/LB 1.039
 PHI .000 -.0240
 40.000 -.0760

MACH (2) = 2.000 BETAT (4) = -1.110 X/LB 1.039
 PHI .000 -.0240
 40.000 -.0650

MACH (2) = 2.000 BETAT (5) = 1.090 X/LB 1.039
 PHI .000 -.0490
 40.000 -.1690

MACH (2) = 2.000 BETAT (5) = 6.015 X/LB 1.039
 PHI .000 -.0600
 40.000 -.0800

MACH (2) = 2.000 BETAT (7) = 8.110 X/LB 1.039
 PHI .000 -.0780
 40.000 -.1930

DATE 21 SEP 73

TABULATED PRESSURE DATA - IASB

(R80M01) (24 MAY 73)

AMES 97-707 IAS OBA + S3 + T9 OMS POD OUTSIDE

PARAMETRIC DATA

BETAT = .005 ORBLINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

REFERENCE DATA

SRFP = 2.4210 SQ.FT. XMRP = 20.1300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BRFP = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0000 SCALE

DEPENDENT VARIABLE CP

SECTION (1) OMS POD OUTSIDE	MACH (1) = 1.555	ALPHAT(1) = -8.400	X/1B	PHI
			1.001	1.001
			110.000	.0180
			120.000	-.0040
			X/1B	1.001
			PHI	1.001
			110.000	-.0590
			120.000	-.0160
			X/1B	1.001
			PHI	1.001
			110.000	.0090
			120.000	-.0210
			X/1B	1.001
			PHI	1.001
			110.000	.0010
			120.000	-.0210
			X/1B	1.001
			PHI	1.001
			110.000	-.0960
			120.000	-.0720
			X/1B	1.001
			PHI	1.001
			110.000	-.0360
			120.000	-.0740
			X/1B	1.001
			PHI	1.001
			110.000	-.0740
			120.000	-.1160
			X/1B	1.001
			PHI	1.001
			110.000	-.0740
			120.000	-.1290

MACH (1) = 1.555 ALPHAT(2) = -6.330

MACH (1) = 1.555 ALPHAT(3) = -4.250

MACH (1) = 1.555 ALPHAT(4) = -2.180

MACH (1) = 1.555 ALPHAT(5) = -.120

MACH (1) = 1.555 ALPHAT(6) = 1.990

MACH (1) = 1.555 ALPHAT(7) = 4.010

MACH (1) = 1.555 ALPHAT(8) = 6.080

(RBOM01)

DATE 21 SEP 73 SIMULATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 OGA + S3 + T9 OWS POD OUTSIDE

SECTION ()	POD OUTSIDE	DEPENDENT VARIABLE	CP
MACH (1) =	1.555	ALPHAT(9) =	6.330
	X/LB	1.001	
	PHI		
	110.000	-.0880	
	120.000	-.1100	
MACH (2) =	2.000	ALPHAT(1) =	-0.360
	X/LB	1.001	
	PHI		
	110.000	.0760	
	120.000	.0610	
MACH (2) =	2.000	ALPHAT(2) =	-6.310
	X/LB	1.001	
	PHI		
	110.000	.0620	
	120.000	.0480	
MACH (2) =	2.000	ALPHAT(3) =	-4.250
	X/LB	1.001	
	PHI		
	110.000	.0540	
	120.000	.0380	
MACH (2) =	2.000	ALPHAT(4) =	-2.210
	X/LB	1.001	
	PHI		
	110.000	.0550	
	120.000	.0380	
MACH (2) =	2.000	ALPHAT(5) =	-1.160
	X/LB	1.001	
	PHI		
	110.000	.0540	
	120.000	.0390	
MACH (2) =	2.000	ALPHAT(6) =	1.890
	X/LB	1.001	
	PHI		
	110.000	.0510	
	120.000	.0310	
MACH (2) =	2.000	ALPHAT(7) =	3.930
	X/LB	1.001	
	PHI		
	110.000	.0520	
	120.000	.0320	
MACH (2) =	2.000	ALPHAT(8) =	5.980
	X/LB	1.001	
	PHI		
	110.000	.0560	
	120.000	.0340	

DATE 21 SEP 73

TABULATED PRESSURE DATA - IASB

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AMES 97-707 IAS OEA + S3 + T9 OMS PCO OUTSIDE

(RECORD 1)

SECTION (1) OMS PCO OUTSIDE

DEPENDENT VARIABLE CP

MACH (2) = 2.000	ALPMAT (9) = 8.020	X/LB	1.001
		PHI	
		110.000	.0600
		120.000	.0300

(RBOMR2) (24 MAY 73)

AMES 97-707 1A9 OEA + S3 + T9 OMS POC OUTSIDE

PARAMETRIC DATA

ALPHAT = 6.0000 ORBINC = .5000
RUDDER = .0000 ELEVON = .0000
RUDFLR = .0000

REFERENCED DATA

STEP = 2.4210 CAL-FT. XMRP = 28.9300 INCHES
REF = 39.8490 INCHES YMRP = 1.0000 INCHES
REF = 39.8490 INCHES ZMRP = 1.0000 INCHES
SCALE = 1.0000 SCALE

DEPENDENT VARIABLE CP

SECTION (1) OMS POC OUTSIDE

MACH (1) = 1.555 BETAT (1) = -7.140 X/LB 1.000
PHI 110.000 -.0420
120.000 -.1080

MACH (2) = 1.555 BETAT (2) = -9.100 X/LB 1.000
PHI 110.000 -.0950
120.000 -.1180

MACH (3) = 1.555 BETAT (3) = -9.050 X/LB 1.000
PHI 110.000 -.1010
120.000 -.1280

MACH (4) = 1.555 BETAT (4) = 5.110 X/LB 1.000
PHI 110.000 -.0810
120.000 -.1320

MACH (5) = 1.555 BETAT (5) = 7.140 X/LB 1.000
PHI 110.000 -.0790
120.000 -.1750

MACH (6) = 1.555 BETAT (6) = 9.190 X/LB 1.000
PHI 110.000 -.1270
120.000 -.1870

MACH (7) = 2.000 BETAT (1) = -8.320 X/LB 1.000
PHI 110.000 .1540
120.000 .0630

MACH (8) = 2.000 BETAT (2) = -6.270 X/LB 1.000
PHI 110.000 .0670
120.000 -.0140

981 7174

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

AVES 97-707 1A9 02A + S3 + T9 OMS POD OUTSIDE

(RBOOK2)

SECTION (1) OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETA (3) = -4.210	X/LB	1.001
		PHI	
		110.000	.1130
		120.000	-.0090
MACH (2) = 2.000	BETA (4) = 3.990	X/LB	1.001
		PHI	
		110.000	.0640
		120.000	-.0900
MACH (2) = 2.000	BETA (5) = 6.060	X/LB	1.001
		PHI	
		110.000	.0190
		120.000	-.0630
MACH (2) = 2.000	BETA (6) = 6.120	X/LB	1.001
		PHI	
		110.000	.0720
		120.000	-.0090

DATE 21 SEP 73 TABULATED PRESSURE DATA - IA98

AXES 97-707 IA9 CEA + S3 + T9 OMS POD OUTSIDE

(RBM03) (24 MAR 73)

PARAMETRIC DATA

ALPHAT = 6.000 ORBTNC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 19.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

SECTION : OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.120
 X/LB 1.001
 PHI 110.000 -0.0560
 120.000 -0.0866

MACH (1) = 1.555 BETAT (2) = -5.070
 X/LB 1.001
 PHI 110.000 -0.0800
 120.000 -0.0670

MACH (1) = 1.555 BETAT (3) = -2.050
 X/LB 1.001
 PHI 110.000 -0.0380
 120.000 -0.0970

MACH (1) = 1.555 BETAT (4) = 5.080
 X/LB 1.001
 PHI 110.000 .0030
 120.000 -0.0470

MACH (2) = 2.055 BETAT (5) = 7.110
 X/LB 1.001
 PHI 110.000 -0.0640
 120.000 -0.1640

MACH (2) = 2.055 BETAT (6) = 9.140
 X/LB 1.001
 PHI 110.000 -0.0990
 120.000 -0.1670

MACH (2) = 2.055 BETAT (7) = -8.300
 X/LB 1.001
 PHI 110.000 .1010
 120.000 .0240

MACH (2) = 2.055 BETAT (8) = -6.250
 X/LB 1.001
 PHI 110.000 .1320
 120.000 .0160

AMES 97-707 IAS OBA + S3 + T9 OMS POD OUTSIDE

(RB0403)

SECTION (1) OMS POD OUTSIDE	DEPENDENT VARIABLE CP	X/LB	PHI
MACH (2) = 2.000 BETAT (3) = -4.280		X/LB	1.001
		PHI	
		110.000	.0750
		120.000	-.0240
MACH (2) = 2.000 BETAT (4) = 3.970		X/LB	1.001
		PHI	
		110.000	.0240
		120.000	-.0340
MACH (2) = 2.000 BETAT (5) = 6.030		X/LB	1.001
		PHI	
		110.000	-.0240
		120.000	-.0590
MACH (2) = 2.000 BETAT (6) = 8.080		X/LB	1.001
		PHI	
		110.000	.0680
		120.000	-.0090

TABLATED PRESSURE DATA - 1A98
AMES 97-707 1A9 OCA + S3 + T9 OMS FOD OUTSIDE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .500
RUDDER = .000 ELEVON = .100
RUDFLR = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .0333 SCALE

DEPENDENT VARIABLE CF

SECTION (1) OMS FOD OUTSIDE	MACH (1)	BETAT (1)	X/1B	PHI
	1.555	-7.090	1.001	.0510
			120.000	-.0040
	1.555	-5.070	1.001	-.0630
			120.000	-.0380
	1.555	-3.040	1.001	-.0680
			120.000	-.0690
	1.555	5.060	1.001	-.0400
			120.000	-.0600
	1.555	7.080	1.001	-.0620
			120.000	-.1320
	1.555	9.100	1.001	-.0550
			120.000	-.1350
	2.000	-6.270	1.001	.1410
			120.000	.0270
	2.000	-6.240	1.001	.1250
			120.000	.0690

ANES 97-707 1A9 02A + S3 + T9 OMS POD OUTSIDE

(RBM004)

SECTION (1) OMS POD OUTSIDE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.200

X/LB	1.001
PHI	
110.000	.0960
120.000	-.0170

MACH (2) = 2.000 BETAT (4) = 3.950

X/LB	1.001
PHI	
110.000	.0628
120.000	-.0460

MACH (2) = 2.000 BETAT (5) = 5.990

X/LB	1.001
PHI	
110.000	.0050
120.000	-.0640

MACH (2) = 2.000 BETAT (6) = 6.050

X/LB	1.001
PHI	
110.000	.0680
120.000	-.0280

AMES 97-707 1A9 02A + S3 + T9 OMS POD OUTSIDE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES Z-CP = .0000 INCHES
 SCALE = .03000 SCALE

PARAMETRIC DATA

ALPHAT = 2.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

SECTION (1) OMS POD OUTSIDE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.100

X/LB 1.001
 PHI 110.000 -0.0290
 120.000 .0520

MACH (1) = 1.555 BETAT (2) = -5.070

X/LB 1.001
 PHI 110.000 -0.0900
 120.000 -0.0410

MACH (1) = 1.555 BETAT (3) = -3.050

X/LB 1.001
 PHI 110.000 -0.0780
 120.000 -0.0450

MACH (1) = 1.555 BETAT (4) = 5.050

X/LB 1.001
 PHI 110.000 -0.0400
 120.000 -0.0680

MACH (1) = 1.555 BETAT (5) = 7.070

X/LB 1.001
 PHI 110.000 -0.0980
 120.000 -0.1150

MACH (1) = 1.555 BETAT (6) = 9.090

X/LB 1.001
 PHI 110.000 -0.0940
 120.000 -0.1580

MACH (2) = 2.100 BETAT (1) = -8.690

X/LB 1.001
 PHI 110.000 .1250
 120.000 .0400

MACH (2) = 2.100 BETAT (2) = -6.250

X/LB 1.001
 PHI 110.000 .1090
 120.000 .0180

(RBOHLS)

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98
ANES 97-707 IAS OSA + S3 + T9 OMS POD OUTSIDE

SECTION (1) OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (3) = -4.140	X/LB	PHI
		110.000	.0820
		120.000	.0650

MACH (2) = 2.000	BETAT (4) = 3.940	X/LB	PHI
		110.000	.0990
		120.000	-.0450

MACH (2) = 2.000	BETAT (5) = 5.960	X/LB	PHI
		110.000	.0610
		120.000	-.0530

MACH (2) = 2.000	BETAT (6) = 6.025	X/LB	PHI
		110.000	-.0440
		120.000	-.0660

DATE 21 SEP 73 TABULATED PRESSURE DATA - IA98

ANES 97-707 IA9 OCA + S3 + T9 OMS POD OUTSIDE

(RBOHR6) (24 MAY 73)

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

SECTION (1) OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -7.100
 X/LB 1.001
 PHI 110.000 -.0070
 120.000 .0550

MACH (1) = 1.555 BETAT (2) = -5.060
 X/LB 1.001
 PHI 110.000 .0090
 120.000 -.0060

MACH (1) = 1.555 BETAT (3) = -3.060
 X/LB 1.001
 PHI 110.000 -.0510
 120.000 .0170

MACH (1) = 1.555 BETAT (4) = 5.050
 X/LB 1.001
 PHI 110.000 -.0190
 120.000 -.0610

MACH (1) = 1.555 BETAT (5) = 7.060
 X/LB 1.001
 PHI 110.000 -.0540
 120.000 -.1180

MACH (1) = 1.555 BETAT (6) = 9.090
 X/LB 1.001
 PHI 110.000 -.0630
 120.000 -.1120

MACH (2) = 2.1000 BETAT (1) = -8.290
 X/LB 1.001
 PHI 110.000 .1280
 120.000 .0380

MACH (2) = 2.1000 BETAT (2) = -6.290
 X/LB 1.001
 PHI 110.000 .0970
 120.000 .1640

DATE 21 SEP 73

TABLULATED PRESSURE DATA - 1A98

AXES 97-707 1A9 OEA + S3 + T9 OMS PCD OUTSIDE

(RBOH66)

DEPENDENT VARIABLE CP

SECTION (1) OMS PCD OUTSIDE

MACH (2) = 2.000 BETAT (3) = -.130

1/1B	1.001
PHI	
110,000	.0810
120,000	.0328

MACH (2) = 2.000 BETAT (4) = 3.890

1/1B	1.001
PHI	
110,000	.0540
120,000	-.0459

MACH (2) = 2.000 BETAT (5) = 5.980

1/1B	1.001
PHI	
110,000	.0967
120,000	-.0550

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

AMES 97-707 1A9 OEA + S3 + T9 OMS POD OUTSIDE

(R0807) , (24 MAY 73)

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUOFLR = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 29.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

SECTION (1) OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -7.110	X/LB	PHI
		110.000	.0490
		120.000	.0340
MACH (1) = 1.555	BETAT (2) = -5.090	X/LB	PHI
		110.000	.0530
		120.000	.0450
MACH (1) = 1.555	BETAT (3) = -3.070	X/LB	PHI
		110.000	.0170
		120.000	.0090
MACH (1) = 1.555	BETAT (4) = 5.040	X/LB	PHI
		110.000	.0160
		120.000	-.0610
MACH (1) = 1.555	BETAT (5) = 7.060	X/LB	PHI
		110.000	-.0270
		120.000	-.1020
MACH (1) = 1.555	BETAT (6) = 9.080	X/LB	PHI
		110.000	-.0690
		120.000	-.0850
MACH (2) = 2.000	BETAT (1) = -8.310	X/LB	PHI
		110.000	.1330
		120.000	.1230
MACH (2) = 2.000	BETAT (2) = -6.280	X/LB	PHI
		110.000	.1000
		120.000	.0880

AMES 97-707 1A9 O2A + S3 + T9 OMS PCD OUTSIDE

(RCOND?)

SECTION (1) OMS PCD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.230

X/LB	PHI
110.000	.0820
120.000	.0690

MACH (2) = 2.000 BETAT (4) = 3.940

X/LB	PHI
110.000	.0960
120.000	-.0350

MACH (2) = 2.000 BETAT (5) = 5.970

X/LB	PHI
110.000	.0730
120.000	-.0460

MACH (2) = 2.000 BETAT (6) = 6.010

X/LB	PHI
110.000	.0710
120.000	-.0690

DATE 21 SEP 73

TABLATED PRESSURE DATA - 1A98

(RBOM68) (24 MAY 73)

AMES 97-707 1A9 O2A + S3 + T9 OMS POD OUTSIDE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0720 INCHES
 BREF = 39.8490 INCHES ZMRP = .0440 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.0000 ORBINC = .5000
 RUDDER = .0000 ELEVON = .1400
 RUDFLR = .0000

DEPENDENT VARIABLE CP

SECTION (1) OMS POD OUTSIDE

MACH (1) = 1.555 BETAT (1) = -8.130
 X/LB 1.001
 PHI 110.000 .1010
 120.000 .0910

MACH (1) = 1.555 BETAT (2) = -6.150
 X/LB 1.001
 PHI 110.000 .0610
 120.000 .0550

MACH (1) = 1.555 BETAT (3) = -3.070
 X/LB 1.001
 PHI 110.000 .0120
 120.000 -.0020

MACH (1) = 1.555 BETAT (4) = 5.030
 X/LB 1.001
 PHI 110.000 .0140
 120.000 .0480

MACH (1) = 1.555 BETAT (5) = 7.050
 X/LB 1.001
 PHI 110.000 -.0340
 120.000 -.0760

MACH (1) = 1.555 BETAT (6) = 9.070
 X/LB 1.001
 PHI 110.000 -.0300
 120.000 -.0820

MACH (2) = 2.000 BETAT (1) = -8.310
 X/LB 1.001
 PHI 110.000 .1240
 120.000 .1110

MACH (2) = 2.000 BETAT (2) = -6.270
 X/LB 1.001
 PHI 110.000 .1010
 120.000 .0940

DATE 21 SEP 73

TABLATED PRESSURE DATA - 1A98

(RDOMS8)

ANES 97-707 1A9 02A + S3 + T9 OMS POD OUTSIDE

SECTION (1) OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) =	BETAT (3) =	X/LB	PHI
2.000	-4.230	1.001	.0790
		120.000	.0630
MACH (2) =	BETAT (4) =	X/LB	PHI
2.000	3.920	1.001	.0560
		120.000	-.0240
MACH (2) =	BETAT (5) =	X/LB	PHI
2.000	5.960	1.001	.0720
		120.000	-.0510
MACH (2) =	BETAT (6) =	X/LB	PHI
2.000	8.010	1.001	.0720
		120.000	-.0620

AVES 97-707 1A9 ORA + S3 + T9 OMS FOD OUTSIDE

(RBM019) (24 MAY 73)

REFERENCE DATA

SPEF = 2.4210 SQ.FT. YMF = 20.9310 INCHES
 LREF = 39.8490 INCHES YMF = 1.0000 INCHES
 BREF = 39.8490 INCHES ZMF = 1.0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.0000 OFBINC = .5000
 RUDDER = .0000 ELEVON = .0000
 RUDFLR = .0000

SECTION (1) OMS FOD OUTSIDE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.160	X/LB	PHI
		1.000	1.000
		110.000	.0050
		120.000	.0010

MACH (1) = 1.555	BETAT (2) = -6.170	X/LB	PHI
		1.000	1.000
		110.000	.0070
		120.000	.0090

MACH (1) = 1.555	BETAT (3) = -4.180	X/LB	PHI
		1.000	1.000
		110.000	.0010
		120.000	.0020

MACH (1) = 1.555	BETAT (4) = 3.640	X/LB	PHI
		1.000	1.000
		110.000	-.0050
		120.000	-.0740

MACH (1) = 1.555	BETAT (5) = 5.690	X/LB	PHI
		1.000	1.000
		110.000	.0190
		120.000	-.0450

MACH (1) = 1.555	BETAT (6) = 7.740	X/LB	PHI
		1.000	1.000
		110.000	.0130
		120.000	-.0960

MACH (2) = 2.000	BETAT (1) = -8.340	X/LB	PHI
		1.000	1.000
		110.000	.0380
		120.000	.0290

MACH (2) = 2.000	BETAT (2) = -6.900	X/LB	PHI
		1.000	1.000
		110.000	.0100
		120.000	.0120

AMES 97-707 1A9 02A + S3 + T9 OMS FOD OUTSIDE

SECTION (1) OMS FOD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.250

	X/LB	1.001
PHI	110.000	.0910
	120.000	.0770

MACH (2) = 2.000 BETAT (4) = 3.930

	X/LB	1.001
PHI	110.000	.0650
	120.000	.0520

MACH (2) = 2.000 BETAT (5) = 6.020

	X/LB	1.001
PHI	110.000	.0150
	120.000	-.0660

AMES 97-707 1A9 O2A + S3 + T9 OMS POD OUTSIDE

(RBONID) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 26.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 30.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .03000 SCALE

PARAMETRIC DATA

ALPHAT = -8.1400 ORBINC = .5000
 RUDDER = .0000 ELEVON = .0000
 RUDFLR = .0000

SECTION (1) OMS POD OUTSIDE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.200	X/LB	PHI
		110.000	.1140
		120.000	.1110
MACH (1) = 1.555	BETAT (2) = -6.210	X/LB	PHI
		110.000	.0690
		120.000	.0640
MACH (1) = 1.555	BETAT (3) = -4.220	X/LB	PHI
		110.000	.0360
		120.000	.0290
MACH (1) = 1.555	BETAT (4) = 3.650	X/LB	PHI
		110.000	.0270
		120.000	-.0620
MACH (1) = 1.555	BETAT (5) = 5.710	X/LB	PHI
		110.000	.0210
		120.000	-.0410
MACH (1) = 1.555	BETAT (6) = 7.770	X/LB	PHI
		110.000	.0290
		120.000	-.0820
MACH (2) = 2.000	BETAT (1) = -6.390	X/LB	PHI
		110.000	.1600
		120.000	.1550
MACH (2) = 2.000	BETAT (2) = -6.330	X/LB	PHI
		110.000	.1210
		120.000	.1130

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

AMES 97-707 IA9 O2A + S3 + T9 OMS PCD OUTSIDE

(RBOH1D)

SECTION (1) OMS PCD OUTSIDE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.280

X/LB	1.001
PHI	
110.000	.1010
120.000	.0910

MACH (2) = 2.000 BETAT (4) = -.170

X/LB	1.001
PHI	
110.000	.0740
120.000	.0610

MACH (2) = 2.000 BETAT (5) = 3.940

X/LB	1.001
PHI	
110.000	.0700
120.000	.0620

MACH (2) = 2.000 BETAT (6) = 5.980

X/LB	1.001
PHI	
110.000	.0820
120.000	-.0230

MACH (2) = 2.000 BETAT (7) = 8.050

X/LB	1.001
PHI	
110.000	.0980
120.000	-.0610

(RBOM11) (24 MAY 73)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A9B
 AMES 97-707 1A9 OEA + S3 + T9 OMS ROD OUTSIDE

PARAMETRIC DATA

ALPHAT = -8.1420 ORBINC = .500
 RUDDER = -15.1470 ELEVON = .000
 RUOFLR = .000

REFERENCE DATA

SREF = 2.4210 SQ. FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 PRF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

DEPENDENT VARIABLE CP

SECTION (1) OMS ROD OUTSIDE

MACH (1) = 1.555	BETAT (1) = -0.420	X/LB	PHI
		110.000	.0840
		120.000	.0720

MACH (1) = 1.555	BETAT (2) = -6.360	X/LB	PHI
		110.000	.0560
		120.000	.0490

MACH (1) = 1.555	BETAT (3) = -4.310	X/LB	PHI
		110.000	.0900
		120.000	.0190

MACH (1) = 1.555	BETAT (4) = -.160	X/LB	PHI
		110.000	.0190
		120.000	.0020

MACH (1) = 1.555	BETAT (5) = 3.940	X/LB	PHI
		110.000	.0040
		120.000	-.0060

MACH (1) = 1.555	BETAT (6) = 6.000	X/LB	PHI
		110.000	.0140
		120.000	.0000

MACH (1) = 1.555	BETAT (7) = 6.060	X/LB	PHI
		110.000	-.0200
		120.000	-.0770

MACH (2) = 2.000	BETAT (1) = -6.390	X/LB	PHI
		110.000	.1400
		120.000	.1290

DATE 21 SEP 73

TABLULATED PRESSURE DATA - 1A98

(RBOH11)

ANES 97-707 1A9 OSA + S3 + T9 CMS PCD OUTSIDE

DEPENDENT VARIABLE CP

SECTION (1) CMS PCD OUTSIDE

MACH (2) =	BETAT (2) =	X/LB	PHI
2.000	-6.340	1.001	.1110
		110.000	.0990
		120.000	
MACH (2) =	BETAT (3) =	X/LB	PHI
2.000	-4.290	1.001	.0940
		110.000	.0790
		120.000	
MACH (2) =	BETAT (4) =	X/LB	PHI
2.000	-.180	1.001	.0750
		110.000	.0620
		120.000	
MACH (2) =	BETAT (5) =	X/LB	PHI
2.000	3.930	1.001	.0560
		110.000	.0400
		120.000	
MACH (2) =	BETAT (6) =	X/LB	PHI
2.000	5.980	1.001	.0470
		110.000	.0340
		120.000	
MACH (2) =	BETAT (7) =	X/LB	PHI
2.000	8.040	1.001	.0490
		110.000	-.0370
		120.000	

AMES 97-707 1A9 O2A + S3 + T9 OMS FOD OUTSIDE (RBOH12) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 50.FT. XMRP = 20.5300 INCHES
 LREF = 39.6490 INCHES YMRP = .0000 INCHES
 BREF = 39.6490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

PARAMETRIC DATA

ALPHAT = -4.0000 ORBTNC = .5000
 RUDDER = -15.0000 ELEVON = .0000
 RUOFLR = .0000

SECTION (1) OMS FOD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.350 X/LB 1.001
 PHI 110.000 .0650
 120.000 .0500

MACH (1) = 1.555 BETAT (2) = -6.310 X/LB 1.001
 PHI 110.000 .0320
 120.000 .0140

MACH (1) = 1.555 BETAT (3) = -4.260 X/LB 1.001
 PHI 110.000 .0080
 120.000 -.0090

MACH (1) = 1.555 BETAT (4) = -.170 X/LB 1.001
 PHI 110.000 .0090
 120.000 -.0170

MACH (1) = 1.555 BETAT (5) = 3.930 X/LB 1.001
 PHI 110.000 -.0010
 120.000 -.0080

MACH (1) = 1.555 BETAT (6) = 5.980 X/LB 1.001
 PHI 110.000 .0190
 120.000 -.0430

MACH (1) = 1.555 BETAT (7) = 8.025 X/LB 1.001
 PHI 110.000 -.0280
 120.000 -.1070

MACH (2) = 2.000 BETAT (1) = -8.320 X/LB 1.001
 PHI 110.000 .1250
 120.000 .1110

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

AMES 97-707 1A9 ORA + S3 + T9 OMS FOD OUTSIDE

(R80N12)

DEPENDENT VARIABLE CP

SECTION (1) OMS FOD OUTSIDE

MACH (2) = 2.000 BETAT (2) = -0.280

X/LB	PHI
110.000	.1080
120.000	.0900

MACH (2) = 2.000 BETAT (3) = -4.240

X/LB	PHI
110.000	.0810
120.000	.0680

MACH (2) = 2.000 BETAT (4) = -.170

X/LB	PHI
110.000	.0440
120.000	.0280

MACH (2) = 2.000 BETAT (5) = 3.920

X/LB	PHI
110.000	.0330
120.000	.0170

MACH (2) = 2.000 BETAT (6) = 5.960

X/LB	PHI
110.000	.0280
120.000	-.0320

MACH (2) = 2.000 BETAT (7) = 8.010

X/LB	PHI
110.000	.0230
120.000	-.0530

DATE 21 SEP 73 TABULATED PRESSURE DATA - IA98
ANES 97-707 IA9 O2A + S3 + T9 OMS FOD OUTSIDE

(R80M13) (24 MAY 73)

PARAMETRIC DATA

ALPHAT = .0200 ORBINC = .500
RUDDER = -15.0000 ELEVON = .0000
RUDFLR = .0000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0200 INCHES
SCALE = .0300 SCALE

SECTION (1) OMS FOD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.310
X/LB 1.001
PHI 110.000 .0830
120.000 .0240

MACH (1) = 1.555 BETAT (2) = -6.280
X/LB 1.001
PHI 110.000 .0170
120.000 .0340

MACH (1) = 1.555 BETAT (3) = -4.240
X/LB 1.001
PHI 110.000 -.0040
120.000 .0120

MACH (1) = 1.555 BETAT (4) = -.140
X/LB 1.001
PHI 110.000 .0190
120.000 -.0590

MACH (1) = 1.555 BETAT (5) = 3.940
X/LB 1.001
PHI 110.000 -.0310
120.000 -.0270

MACH (1) = 1.555 BETAT (6) = 5.200
X/LB 1.001
PHI 110.000 -.0320
120.000 -.0690

MACH (1) = 1.555 BETAT (7) = 8.050
X/LB 1.001
PHI 110.000 -.0610
120.000 -.1370

MACH (2) = 2.000 BETAT (1) = -8.300
X/LB 1.001
PHI 110.000 .1250
120.000 .0450

AMES 97-707 1A9 OEA + S3 + T9 OMS FOR OUTSIDE

(RBM13)

SECTION (1) OMS FOR OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (2) = -6.260	X/LB PHI	1.001
		110.000	.0940
		120.000	.0640
MACH (2) = 2.000	BETAT (3) = -4.220	X/LB PHI	1.001
		110.000	.0790
		120.000	.0630
MACH (2) = 2.000	BETAT (4) = -.140	X/LB PHI	1.001
		110.000	.0470
		120.000	.0310
MACH (2) = 2.000	BETAT (5) = 3.930	X/LB PHI	1.001
		110.000	.0930
		120.000	-.0290
MACH (2) = 2.000	BETAT (6) = 5.980	X/LB PHI	1.001
		110.000	.0180
		120.000	.0060
MACH (2) = 2.000	BETAT (7) = 8.020	X/LB PHI	1.001
		110.000	.0160
		120.000	-.0600

AMES 97-707 1A9 OEA + S3 + T9 OMS POD OUTSIDE

(RBOH14) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 90.FT. XMRP = 29.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .03000 SCALE

PARAMETRIC DATA

ALPHAT = 4.0000 ORBTNC = .500
 RUDDER = -15.0000 ELEVON = .000
 RUDFLR = .000

SECTION (1) OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.300	X/LB	PHI
		110.000	.0880
		120.000	-.0530
MACH (1) = 1.555	BETAT (2) = -6.260	X/LB	PHI
		110.000	-.0090
		120.000	-.0560
MACH (1) = 1.555	BETAT (3) = -4.220	X/LB	PHI
		110.000	-.0920
		120.000	-.0620
MACH (1) = 1.555	BETAT (4) = -.120	X/LB	PHI
		110.000	-.0790
		120.000	-.1010
MACH (1) = 1.555	BETAT (5) = 3.950	X/LB	PHI
		110.000	.0170
		120.000	-.0610
MACH (1) = 1.555	BETAT (6) = 6.000	X/LB	PHI
		110.000	-.0650
		120.000	-.1080
MACH (1) = 1.955	BETAT (7) = 8.040	X/LB	PHI
		110.000	-.1000
		120.000	-.1620
MACH (2) = 2.000	BETAT (1) = -8.250	X/LB	PHI
		110.000	.1230
		120.000	.0250

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 OEA + S3 + T9 OMS FOD OUTSIDE

(RBOH14)

SECTION (1) OMS FOD OUTSIDE	DEPENDENT VARIABLE CP
MACH (2) = 2.000 BETAT (2) = -6.250	X/LB 1.001 PHI 110.000 .1080 120.000 .0080
MACH (2) = 2.000 BETAT (3) = -4.200	X/LB 1.001 PHI 110.000 .0830 120.000 -.0130
MACH (2) = 2.000 BETAT (4) = -.130	X/LB 1.001 PHI 110.000 .0420 120.000 .0230
MACH (2) = 2.000 BETAT (5) = 3.950	X/LB 1.001 PHI 110.000 .0680 120.000 -.0550
MACH (2) = 2.000 BETAT (6) = 5.990	X/LB 1.001 PHI 110.000 .0160 120.000 -.0630
MACH (2) = 2.000 BETAT (7) = 8.040	X/LB 1.001 PHI 110.000 .0140 120.000 .0090

(RBM15) (24 MAY 73)

DATE 21 SEP 73

REGULATED PRESSURE DATA - IA9B
 ARES 97-707 IA9 OSA + S3 + T9 OMS POD OUTSIDE

PARAMETRIC DATA

ALPHAT = 6.1640 OFBINC = .5170
 RUDDER = -15.1640 ELEVON = .0000
 RUDFLR = .0000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 SREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

DEPENDENT VARIABLE CP

SECTION (1) OMS POD OUTSIDE	MACH (1) = 1.555	BETAT (1) = -8.320	X/LB	PHI	1.001
			110.000	-0.0070	
			120.000	-0.0460	
MACH (1) = 1.555	BETAT (2) = -6.280	X/LB	PHI	1.001	
		110.000	-0.0160		
		120.000	-0.0920		
MACH (1) = 1.555	BETAT (3) = -4.230	X/LB	PHI	1.001	
		110.000	-0.0680		
		120.000	-0.0780		
MACH (1) = 1.555	BETAT (4) = -.120	X/LB	PHI	1.001	
		110.000	-0.0800		
		120.000	-0.1130		
MACH (1) = 1.555	BETAT (5) = 3.970	X/LB	PHI	1.001	
		110.000	-0.0220		
		120.000	-0.0880		
MACH (1) = 1.555	BETAT (6) = 6.030	X/LB	PHI	1.001	
		110.000	-0.0610		
		120.000	-0.1290		
MACH (1) = 1.555	BETAT (7) = 6.080	X/LB	PHI	1.001	
		110.000	-0.1210		
		120.000	-0.1550		
MACH (2) = 2.000	BETAT (1) = -6.280	X/LB	PHI	1.001	
		110.000	.0640		
		120.000	-0.0210		

(RBOM15)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98
AMES 97-707 IAS OCA + S3 + T9 OMS POD OUTSIDE

SECTION (1) OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -4.210
X/LB 1.001
PHI
110.000 .0620
120.000 -.0310

MACH (2) = 2.000 BETAT (3) = -.130
X/LB 1.001
PHI
110.000 .0540
120.000 -.0420

MACH (2) = 2.000 BETAT (4) = 3.970
X/LB 1.001
PHI
110.000 -.0220
120.000 -.0680

MACH (2) = 2.000 BETAT (5) = 6.020
X/LB 1.001
PHI
110.000 -.0430
120.000 -.0680

MACH (2) = 2.000 BETAT (6) = 8.070
X/LB 1.001
PHI
110.000 .0160
120.000 .0040

AMES 97-757 1A9 O2A + S3 + T9 OMS POD OUTSIDE

PARAMETRIC DATA

ALPHAT = 8.1420 ORBITINC = .5040
 RUDDER = -15.5420 ELEVON = .1440
 RUDFLR = .1440

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 20.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .1440 INCHES
 BREF = 39.8490 INCHES ZMRP = .1440 INCHES
 SCALE = .03000 SCALE

DEPENDENT VARIABLE CP

SECTION (1) OMS POD OUTSIDE

MACH (1) = 1.555 BETAT (1) = -0.350
 X/LB 1.001
 PHI 110.000 -0.550
 120.000 -0.0700

MACH (1) = 1.555 BETAT (2) = -6.250
 X/LB 1.001
 PHI 110.000 -0.460
 120.000 -0.0700

MACH (1) = 1.555 BETAT (3) = -4.240
 X/LB 1.001
 PHI 110.000 -0.0670
 120.000 -0.0940

MACH (1) = 1.555 BETAT (4) = -1.110
 X/LB 1.001
 PHI 110.000 -0.0980
 120.000 -0.0960

MACH (1) = 1.555 BETAT (5) = 4.100
 X/LB 1.001
 PHI 110.000 -0.0330
 120.000 -0.0780

MACH (1) = 1.555 BETAT (6) = 6.160
 X/LB 1.001
 PHI 110.000 -0.1030
 120.000 -0.1250

MACH (1) = 1.555 BETAT (7) = 0.120
 X/LB 1.001
 PHI 110.000 -0.0940
 120.000 -0.1330

MACH (2) = 2.000 BETAT (1) = -0.340
 X/LB 1.001
 PHI 110.000 .0660
 120.000 .1040

(R80M16)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98
ANES 97-787 1A9 C8A * S3 * T9 C8G. PCD OUTSIDE

SECTION (1) C8G PCD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (2) = -6.270	X/LB	PHI
		110.000	-0.0020
		120.000	-0.0360
		1.001	
		110.000	-0.0060
		120.000	-0.0490
		1.001	
		110.000	.0540
		120.000	-0.0540
		1.001	
		110.000	.0260
		120.000	-0.0700
		1.001	
		110.000	.0260
		120.000	-0.0710
		1.001	
		110.000	.0160
		120.000	.0230

010

(RBM17) (24 MAY 73)

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .500
 RUDDER = -10.000 ELEVON = .000
 RUDDLR = .000

DATE 21 SEP 72 -OBTAINED PRESSURE DATA - 1498

AME 3 97-7J7 IAS OSA + S3 + T9 OMS ROD OUTSIDE

REFERENCE DATA

SREF = 2.4210 SQ.FT. XREF = 20.5300 INCHES
 LREF = 39.8490 INCHES YREF = .1600 INCHES
 BREF = 39.8490 INCHES ZREF = .1600 INCHES
 SCALE = .0000 SCALE

SECTION (1) OMS ROD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.410 X/LB 1.001
 PHI 110.000 .0898
 120.000 .0770

MACH (1) = 1.555 BETAT (2) = -6.360 X/LB 1.001
 PHI 110.000 .0550
 120.000 .0450

MACH (1) = 1.555 BETAT (3) = -4.300 X/LB 1.001
 PHI 110.000 .0470
 120.000 .0360

MACH (1) = 1.555 BETAT (4) = -.180 X/LB 1.001
 PHI 110.000 .0490
 120.000 .0270

MACH (1) = 1.555 BETAT (5) = 3.990 X/LB 1.001
 PHI 110.000 .0110
 120.000 .0010

MACH (1) = 1.555 BETAT (6) = 5.990 X/LB 1.001
 PHI 110.000 .0120
 120.000 .0010

MACH (1) = 1.555 BETAT (7) = 8.090 X/LB 1.001
 PHI 110.000 .0250
 120.000 -.0630

MACH (2) = 2.140 BETAT (1) = -8.380 X/LB 1.001
 PHI 110.000 .1620
 120.000 .1530

(RBOH17)

TABLULATED PRESSURE DATA - 1A88

AMES 97-707 1AS OSA + S3 + T8 OMS FOD OUTSIDE

DATE 21 SEP 73

DEPENDENT VARIABLE CP

SECTION (1) OMS FOD OUTSIDE

MACH (2) = 2.000 BETAT (2) = -6.330

X/LB	1.001
PHI	
110.000	.1270
120.000	.1170

MACH (2) = 2.000 BETAT (3) = -4.280

X/LB	1.001
PHI	
110.000	.1080
120.000	.0980

MACH (2) = 2.000 BETAT (4) = -.170

X/LB	1.001
PHI	
110.000	.0880
120.000	.0880

MACH (2) = 2.000 BETAT (5) = 3.930

X/LB	1.001
PHI	
110.000	.0680
120.000	.0710

MACH (2) = 2.000 BETAT (6) = 5.980

X/LB	1.001
PHI	
110.000	.0480
120.000	.0460

MACH (2) = 2.000 BETAT (7) = 8.040

X/LB	1.001
PHI	
110.000	.0280
120.000	-.0320

AMES 97-707 1A9 OEA • 53 • T9 OMS POD OUTSIDE

(RBOIMP) (24 MAY 73

REFERENCE DATA

SREF = 2.4216 SQ.FT. YMRP = 28.5370 INCHES
 LREF = 59.8490 INCHES YMRP = 1.1720 INCHES
 BREF = 59.8490 INCHES ZMRP = 1.1720 INCHES
 SCALE = .00020 SCALE

PARAMETRIC DATA

ALPMAT = -4.1660 ORBINC = 0.0000
 RUDDER = -20.0000 ELEVON = 0.0000
 RUDEFL = .0000

SECTION (1) OMS POD OUTSIDE

DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -0.340	X/LB	PHI
		110.000	.0710
		120.000	.0490
MACH (1) = 1.555	BETAT (2) = -0.300	X/LB	PHI
		110.000	.0450
		120.000	.0280
MACH (1) = 1.555	BETAT (3) = -0.250	X/LB	PHI
		110.000	.0320
		120.000	.0130
MACH (1) = 1.555	BETAT (4) = -0.160	X/LB	PHI
		110.000	.0050
		120.000	-.0120
MACH (1) = 1.555	BETAT (5) = 0.000	X/LB	PHI
		110.000	-.0050
		120.000	-.0190
MACH (1) = 1.555	BETAT (6) = 0.000	X/LB	PHI
		110.000	-.0050
		120.000	-.0160
MACH (1) = 1.555	BETAT (7) = 0.020	X/LB	PHI
		110.000	.0160
		120.000	-.0120
MACH (2) = 2.000	BETAT (1) = -0.320	X/LB	PHI
		110.000	.0510
		120.000	.0450

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1488
AVES 97-707 IAS OSA + 83 + TS OMS POD OUTSIDE

DEPENDENT VARIABLE CP

SECTION (1) OMS POD OUTSIDE

MACH (2) = 2.000 BETAT (2) = -6.270

X/LB 1.001
PHI 110.000 .1210
120.000 .1100

MACH (2) = 2.000 BETAT (3) = -4.230

X/LB 1.001
PHI 110.000 .1070
120.000 .0940

MACH (2) = 2.000 BETAT (4) = -.160

X/LB 1.001
PHI 110.000 .0740
120.000 .0600

MACH (2) = 2.000 BETAT (5) = 3.960

X/LB 1.001
PHI 110.000 .0720
120.000 -.0140

MACH (2) = 2.000 BETAT (6) = 5.960

X/LB 1.001
PHI 110.000 .0670
120.000 -.0340

MACH (2) = 2.000 BETAT (7) = 8.010

X/LB 1.001
PHI 110.000 .0660
120.000 -.0340

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B
 QMS 97-707 1A9 O2A → S3 → T9 QMS POD OUTSIDE

(RBOH9) (24 MAY 73)

PARAMETRIC DATA

ALPHAT = .020 ORBINC = .140
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .020

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

SECTION (1) QMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -0.320	X/LB	PHI
		1.001	1.001
		110.000	.0840
		120.000	.0820
MACH (1) = 1.555	BETAT (2) = -6.270	X/LB	PHI
		1.001	1.001
		110.000	.0570
		120.000	.0370
MACH (1) = 1.555	BETAT (3) = -4.240	X/LB	PHI
		1.001	1.001
		110.000	.0490
		120.000	.0290
MACH (1) = 1.555	BETAT (4) = -.140	X/LB	PHI
		1.001	1.001
		110.000	.0170
		120.000	-.0270
MACH (1) = 1.555	BETAT (5) = 3.990	X/LB	PHI
		1.001	1.001
		110.000	.0210
		120.000	.0320
MACH (1) = 1.555	BETAT (6) = 5.990	X/LB	PHI
		1.001	1.001
		110.000	.0070
		120.000	-.0520
MACH (1) = 1.555	BETAT (7) = 6.040	X/LB	PHI
		1.001	1.001
		110.000	.0440
		120.000	-.0970
MACH (2) = 2.000	BETAT (1) = -6.300	X/LB	PHI
		1.001	1.001
		110.000	.0970
		120.000	.0340

AVES 97-707 1A9 OEA + S3 + T9 OMS POI OUTSIDE

(RECON19)

DEPENDENT VARIABLE CP

SECTION (1) OMS POD OUTSIDE

MACH (2) = 2.000 BETAT (2) = -6.260

X/LB 1.001
PHI
110.000 .1260
120.000 .0190

MACH (2) = 2.000 BETAT (3) = -4.220

X/LB 1.001
PHI
110.000 .0490
120.000 .0060

MACH (2) = 2.000 BETAT (4) = -1.160

X/LB 1.001
PHI
110.000 .0680
120.000 -.0070

MACH (2) = 2.000 BETAT (5) = 3.930

X/LB 1.001
PHI
110.000 .0620
120.000 -.0390

MACH (2) = 2.000 BETAT (6) = 5.980

X/LB 1.001
PHI
110.000 .0680
120.000 -.0520

MACH (2) = 2.000 BETAT (7) = 6.020

X/LB 1.001
PHI
110.000 .0390
120.000 -.0660

(RBOOKED) (24 MAY 73)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98
 ANES 97-707 1A9 OCA + S3 + T9 OMS FOD OUTSIDE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

REFERENCE DATA

SREF = 2.4210 SA.FT. XMRP = 28.5350 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0350 SCALE

SECTION (1) OMS FOD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -8.300	X/LB	PHI
		110.000	.0990
		120.000	-.0310
MACH (1) = 1.555	BETAT (2) = -6.270	X/LB	PHI
		110.000	.0260
		120.000	-.0350
MACH (1) = 1.555	BETAT (3) = -4.220	X/LB	PHI
		110.000	.0660
		120.000	-.0510
MACH (1) = 1.555	BETAT (4) = -.130	X/LB	PHI
		110.000	.0040
		120.000	-.0740
MACH (1) = 1.555	BETAT (5) = 3.960	X/LB	PHI
		110.000	.0970
		120.000	-.0350
MACH (1) = 1.555	BETAT (6) = 6.010	X/LB	PHI
		110.000	-.0240
		120.000	-.0900
MACH (1) = 1.555	BETAT (7) = 0.000	X/LB	PHI
		110.000	-.0130
		120.000	-.1430
MACH (8) = 2.140	BETAT (1) = -8.260	X/LB	PHI
		110.000	.1140
		120.000	.0130

AMES 97-787 1A9 CEA + S3 + T9 OMS POD OUTSIDE

(RBOCHED)

SECTION (1) OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.240

X/LB	PHI
110.000	.1240
120.000	-.0100

MACH (2) = 2.000 BETAT (3) = -4.200

X/LB	PHI
110.000	.1120
120.000	-.0190

MACH (2) = 2.000 BETAT (4) = -.130

X/LB	PHI
110.000	.0220
120.000	.0280

MACH (2) = 2.000 BETAT (5) = 3.950

X/LB	PHI
110.000	.0150
120.000	-.0590

MACH (2) = 2.000 BETAT (6) = 5.990

X/LB	PHI
110.000	.0290
120.000	-.0480

MACH (2) = 2.000 BETAT (7) = 8.040

X/LB	PHI
110.000	.0780
120.000	-.0280

TABLULATED PRESSURE DATA - 1A9B

DATE 21 SEP 73

(RBOX21) (24 MAY 75)

AWES 97-707 1A9 OEA + S3 + T9 OMS POD OUTSIDE

PARAMETRIC DATA

ALPMAT = 6.000 ORBINC = .000
 RUDDER = -10.000 ELEVON = .000
 RUDFLR = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 25.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .03000 SCALE

SECTION (1) OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -6.330	X/LB	PHI
		110.000	-.0080
		120.000	-.0680
MACH (1) = 1.555	BETAT (2) = -6.290	X/LB	PHI
		110.000	.0150
		120.000	-.0810
MACH (1) = 1.555	BETAT (3) = -4.230	X/LB	PHI
		110.000	-.0490
		120.000	-.0890
MACH (1) = 1.555	BETAT (4) = -.120	X/LB	PHI
		110.000	.0080
		120.000	-.1010
MACH (1) = 1.555	BETAT (5) = 3.980	X/LB	PHI
		110.000	.0140
		120.000	-.0760
MACH (1) = 1.555	BETAT (6) = 6.040	X/LB	PHI
		110.000	-.0440
		120.000	-.1140
MACH (1) = 1.555	BETAT (7) = 8.110	X/LB	PHI
		110.000	.0140
		120.000	-.1360
MACH (2) = 2.000	BETAT (1) = -6.310	X/LB	PHI
		110.000	.0630
		120.000	-.0450

AMES 9T-707 IAS O2A * S3 * T9 OMS FOD OUTSIDE

(R80M21)

SECTION (1) OMS FOD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (2) = -6.260	X/LB	1.001
		PHI	
		110.000	.0630
		120.000	-.0270
MACH (2) = 2.000	BETAT (3) = -4.210	X/LB	1.001
		PHI	
		110.000	.0590
		120.000	-.0380
MACH (2) = 2.000	BETAT (4) = -.120	X/LB	1.001
		PHI	
		110.000	.0050
		120.000	-.0390
MACH (2) = 2.000	BETAT (5) = 3.978	X/LB	1.001
		PHI	
		110.000	.0000
		120.000	-.0630
MACH (2) = 2.000	BETAT (6) = 6.020	X/LB	1.001
		PHI	
		110.000	-.0010
		120.000	-.0640
MACH (2) = 2.000	BETAT (7) = 6.070	X/LB	1.001
		PHI	
		110.000	.0180
		120.000	-.0280

REFERENCE DATA

SREF = 2.4210 SQ.FT. XREF = 20.5300 INCHES
 LREF = 39.0490 INCHES YREF = 0.0000 INCHES
 BREF = 39.0490 INCHES ZREF = 0.0000 INCHES
 SCALE = 0.0001 SCALE

PARAMETRIC DATA

ALPHAT = 8.0000 ORBINC = 0.0000
 RUDYER = -10.0000 ELEVON = 0.0000
 RUDFLR = 0.0000

SECTION (1) OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -0.360	X/LB	PHI
		110.000	0.0470
		120.000	-0.0820
MACH (1) = 1.555	BETAT (2) = -0.310	X/LB	PHI
		110.000	0.0340
		120.000	-0.0660
MACH (1) = 1.555	BETAT (3) = -0.250	X/LB	PHI
		110.000	-0.0680
		120.000	-0.1140
MACH (1) = 1.555	BETAT (4) = -0.110	X/LB	PHI
		110.000	0.0360
		120.000	-0.0990
MACH (1) = 1.555	BETAT (5) = 0.940	X/LB	PHI
		110.000	0.0410
		120.000	-0.0680
MACH (1) = 1.555	BETAT (6) = 6.060	X/LB	PHI
		110.000	0.0430
		120.000	-0.1320
MACH (1) = 2.044	BETAT (7) = 0.120	X/LB	PHI
		110.000	-0.0460
		120.000	-0.1530
MACH (2) = 2.044	BETAT (8) = -0.330	X/LB	PHI
		110.000	0.0690
		120.000	-0.0210

(RECORD)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A90
 ANES 97-707-1A9 OSA → S3 → T9 OMS POD OUTSIDE

SECTION (1) OMS POD OUTSIDE DEPENDENT VARIABLE CP

SECTION (2) = 2.000	BETAT (2) = -6.280	X/LB	PHI
		110.000	.0630
		120.000	-.0460

SECTION (2) = 2.000	BETAT (3) = -4.220	X/LB	PHI
		110.000	.0230
		120.000	-.0490

SECTION (2) = 2.000	BETAT (4) = -.110	X/LB	PHI
		110.000	.0210
		120.000	-.0900

SECTION (2) = 2.000	BETAT (5) = 4.000	X/LB	PHI
		110.000	-.0120
		120.000	-.0700

SECTION (2) = 2.000	BETAT (6) = 6.090	X/LB	PHI
		110.000	.0420
		120.000	-.0680

SECTION (2) = 2.000	BETAT (7) = 8.110	X/LB	PHI
		110.000	-.0030
		120.000	-.0380

TABULATED PRESSURE DATA - 1A98

AMES 97-707 1A9 O2A + S3 + T9 OMS POC OUTSIDE

(RBOM23) (24 MAR 73)

PARAMETRIC DATA

ALPHAT = -8.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 20.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 37.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0000 SCALE

DEPENDENT VARIABLE CP

SECTION (1) OMS POC OUTSIDE

MACH (1) = 1.555 BETAT (1) = -8.400 X/LB 1.001
 PHI 110.000 .1120
 120.000 .1000

MACH (2) = 1.555 BETAT (2) = -6.360 X/LB 1.001
 PHI 110.000 .0830
 120.000 .0730

MACH (3) = 1.555 BETAT (3) = -4.290 X/LB 1.001
 PHI 110.000 .0610
 120.000 .0510

MACH (4) = 1.555 BETAT (4) = -2.170 X/LB 1.001
 PHI 110.000 .0340
 120.000 .0210

MACH (5) = 1.555 BETAT (5) = 3.940 X/LB 1.001
 PHI 110.000 .0090
 120.000 -.0610

MACH (6) = 1.555 BETAT (6) = 8.060 X/LB 1.001
 PHI 110.000 .0290
 120.000 -.0920

MACH (7) = 2.000 BETAT (1) = -8.390 X/LB 1.001
 PHI 110.000 .1630
 120.000 .1520

MACH (8) = 2.000 BETAT (2) = -6.330 X/LB 1.001
 PHI 110.000 .1300
 120.000 .1210

DATE 21 SEP 73

TABLATED PRESSURE DATA - 1A98

AVES 97-707 1A9 ORA + S3 + T9 OMS POD OUTSIDE

(RBOX23)

DEPENDENT VARIABLE CP

SECTION (1) OMS POD OUTSIDE

MACH (2) = 2.000 BETAT (3) = -4.280

X/LB	1.001
PHI	
110.000	.1170
120.000	.1050

MACH (2) = 2.000 BETAT (4) = -.170

X/LB	1.001
PHI	
110.000	.0970
120.000	.0860

MACH (2) = 2.000 BETAT (5) = 3.930

X/LB	1.001
PHI	
110.000	.0810
120.000	.0650

MACH (2) = 2.000 BETAT (6) = 5.980

X/LB	1.001
PHI	
110.000	.0710
120.000	-.0100

MACH (2) = 2.000 BETAT (7) = 8.040

X/LB	1.001
PHI	
110.000	.0250
120.000	-.0460

AMES 97-707 1A9 02A + S3 + T9 OMS FOD OUTSIDE

(RROM24) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 S+FT. XREF = 28.5310 INCHES
 LREF = 39.8490 INCHES YREF = .0000 INCHES
 BREF = 39.8490 INCHES ZREF = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = -4.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) OMS FOD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (1) = -8.330
 X/LB 1.001
 PHI
 110.000 .0990
 120.000 .0890

MACH (1) = 1.555 BETAT (2) = -6.290
 X/LB 1.001
 PHI
 110.000 .0690
 120.000 .0570

MACH (1) = 1.555 BETAT (3) = -4.240
 X/LB 1.001
 PHI
 110.000 .0480
 120.000 .0350

MACH (1) = 1.555 BETAT (4) = -.150
 X/LB 1.001
 PHI
 110.000 .0160
 120.000 .0030

MACH (1) = 1.555 BETAT (5) = 3.940
 X/LB 1.001
 PHI
 110.000 -.0040
 120.000 -.0140

MACH (1) = 1.555 BETAT (6) = 5.980
 X/LB 1.001
 PHI
 110.000 .0010
 120.000 -.0080

MACH (1) = 1.555 BETAT (7) = 8.030
 X/LB 1.001
 PHI
 110.000 .0240
 120.000 -.1160

MACH (2) = 2.100 BETAT (1) = -8.310
 X/LB 1.001
 PHI
 110.000 .1490
 120.000 .1390

(R80RZA)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A99
AMES 97-707 IAS OCA + S. : T9 OMS F00 OUTSIDE

SECTION (1) OMS F00 OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (3) = -6.270	X/LB	PHI
		1.001	
		110.000	.1200
		120.000	.1090
MACH (2) = 2.000	BETAT (3) = -4.250	X/LB	PHI
		1.001	
		110.000	.1020
		120.000	.0910
MACH (2) = 2.000	BETAT (4) = -.160	X/LB	PHI
		1.001	
		110.000	.0690
		120.000	.0650
MACH (2) = 2.000	BETAT (5) = 3.920	X/LB	PHI
		1.001	
		110.000	.0630
		120.000	.0510
MACH (2) = 2.000	BETAT (6) = 5.960	X/LB	PHI
		1.001	
		110.000	.0560
		120.000	.0400
MACH (2) = 2.000	BETAT (7) = 8.010	X/LB	PHI
		1.001	
		110.000	.0580
		120.000	-.0530

DATE 23 SEP 73

TABULATED PRESSURE DATA - 1A9B
 AVES 97-707 1A9 OEA + S3 + T9 OMS POD OUTSIDE

(REONES) (24 MAY 73)

PARAMETRIC DATA

ALPHAT = .000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

REFERENCE DATA

SREF = 2.4210 98.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

DEPENDENT VARIABLE CP

SECTION (1) OMS POD OUTSIDE	MACH	BETAT	X/LB	PHI
MACH (1) = 1.555	BETAT (1) = -0.320	X/LB	1.001	
		PHI		.1070
				.0680
MACH (1) = 1.555	BETAT (2) = -6.270	X/LB	1.001	
		PHI		.0760
				.0590
MACH (1) = 1.555	BETAT (3) = -4.240	X/LB	1.001	
		PHI		.0600
				-.0100
MACH (1) = 1.555	BETAT (4) = -.130	X/LB	1.001	
		PHI		.0140
				-.0590
MACH (1) = 1.555	BETAT (5) = 3.990	X/LB	1.001	
		PHI		.0190
				.0100
MACH (1) = 1.555	BETAT (6) = 5.990	X/LB	1.001	
		PHI		.0210
				-.0630
MACH (1) = 1.555	BETAT (7) = 6.040	X/LB	1.001	
		PHI		.0640
				-.1340
MACH (2) = 2.000	BETAT (1) = -8.290	X/LB	1.001	
		PHI		.1390
				.0480

(R0025)

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A88
AMES 97-707 1A8 CEA + S3 + T9 CMS POD OUTSIDE

DEPENDENT VARIABLE CF

SECTION (1) CMS POD OUTSIDE

MACH (2) = 2.000 BETAT (2) = -0.250

X/LB	1.001
PHI	
110.000	.1160
120.000	.0210

MACH (2) = 2.000 BETAT (3) = -4.210

X/LB	1.001
PHI	
110.000	.1010
120.000	.0120

MACH (2) = 2.000 BETAT (4) = -.140

X/LB	1.001
PHI	
110.000	.0710
120.000	-.0160

MACH (2) = 2.000 BETAT (5) = 3.950

X/LB	1.001
PHI	
110.000	.0620
120.000	-.0420

MACH (2) = 2.000 BETAT (6) = 6.080

X/LB	1.001
PHI	
110.000	.0510
120.000	-.0750

AMES 97-767 1A9 OSA + S3 + T9 OMS POD OUTSIDE

PARAMETRIC DATA

ALPHAT = 4.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5900 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

DEPENDENT VARIABLE CP

SECTION (1) OMS POD OUTSIDE

MACH	BETAT	X/LB	PHI
MACH (1) = 1.555	BETAT (1) = -6.300	X/LB 1.001	PHI 110.000 .0843
			120.000 -.0540
MACH (1) = 1.555	BETAT (2) = -6.280	X/LB 1.001	PHI 110.000 .0620
			120.000 -.0660
MACH (1) = 1.555	BETAT (3) = -4.220	X/LB 1.001	PHI 110.000 .0490
			120.000 -.0440
MACH (1) = 1.555	BETAT (4) = -.120	X/LB 1.001	PHI 110.000 .0410
			120.000 -.0860
MACH (1) = 1.555	BETAT (5) = 3.960	X/LB 1.001	PHI 110.000 .0410
			120.000 -.0550
MACH (1) = 1.555	BETAT (6) = 6.010	X/LB 1.001	PHI 110.000 .0820
			120.000 -.1110
MACH (1) = 1.555	BETAT (7) = 6.090	X/LB 1.001	PHI 110.000 -.0050
			120.000 -.1960
MACH (2) = 2.000	BETAT (1) = -6.280	X/LB 1.001	PHI 110.000 .0920
			120.000 .0030

AMES 97-707 1A8 02A + S3 + T9 CMS POD OUTSIDE

(R8026)

SECTION (1) CMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (2) = -6.230	X/LB	PHI
		110.000	.1240
		120.000	-.0870
MACH (2) = 2.000	BETAT (3) = -4.200	X/LB	PHI
		110.000	.1058
		120.000	-.0200
MACH (2) = 2.000	BETAT (4) = -.120	X/LB	PHI
		110.000	.0650
		120.000	-.0160
MACH (2) = 2.000	BETAT (5) = 3.950	X/LB	PHI
		110.000	.0290
		120.000	-.063
MACH (2) = 2.000	BETAT (6) = 5.990	X/LB	PHI
		110.000	.0070
		120.000	-.0650
MACH (2) = 2.000	BETAT (7) = 6.000	X/LB	PHI
		110.000	.0900
		120.000	-.0950

(RBOHE7) (24 MAY 75)

TABULATED PRESSURE DATA - 1A98
 AMES 97-707 1A9 OCA + S3 + T9 OMS POD OUTSIDE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

DATE 21 SEP 73

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 26.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .5000 INCHES
 BREF = 39.8490 INCHES ZMRP = .5000 INCHES
 SCALE = .0000 SCALE

DEPENDENT VARIABLE CP

SECTION (1) OMS POD OUTSIDE	MACH (1) = 1.555	BETAT (1) = -6.330	X/LB	PHI
			110.000	.0020
			120.000	-.0940
			X/LB	1.001
			PHI	.0940
			120.000	-.1010
			X/LB	1.001
			PHI	.0090
			120.000	-.0820
			X/LB	1.001
			PHI	-.0590
			120.000	-.0940
			X/LB	1.001
			PHI	.0450
			120.000	-.0900
			X/LB	1.001
			PHI	-.0020
			120.000	-.1370
			X/LB	1.001
			PHI	.0000
			120.000	-.1440
			X/LB	1.001
			PHI	.0680
			120.000	-.0220
			X/LB	1.001
			PHI	.0680
			120.000	-.0220

MACH (1) = 1.555 BETAT (2) = -6.270

MACH (1) = 1.555 BETAT (3) = -4.230

MACH (1) = 1.555 BETAT (4) = -.110

MACH (1) = 1.555 BETAT (5) = 3.990

MACH (1) = 1.555 BETAT (6) = 6.030

MACH (1) = 1.555 BETAT (7) = 6.090

MACH (2) = 2.000 BETAT (1) = -6.300

DATE 21 SEP 79 TABULATED PRESSURE DATA - 1A98

ANES 97-707 1A9 OZA + S3 + T9 OMS FOD OUTSIDE

(RBD0M27)

DEPENDENT VARIABLE CP

SECTION (1) OMS FOD OUTSIDE

WACH (2) = 2.000 BETAT (2) = -6.250

X/LB 1.001
PHI 110.000 .0100
120.000 -.0210

WACH (2) = 2.000 BETAT (3) = -4.200

X/LB 1.001
PHI 110.000 .0680
120.000 -.0150

WACH (2) = 2.000 BETAT (4) = -.120

X/LB 1.001
PHI 110.000 .0120
120.000 -.0430

WACH (2) = 2.000 BETAT (5) = 3.970

X/LB 1.001
PHI 110.000 .0280
120.000 -.0700

WACH (2) = 2.000 BETAT (6) = 6.050

X/LB 1.001
PHI 110.000 .0160
120.000 -.0760

WACH (2) = 2.000 BETAT (7) = 6.070

X/LB 1.001
PHI 110.000 .0920
120.000 .0230

AMES 97-707 1A9 O2A + S3 + T9 OMS POD OUTSIDE

(R80426) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = 6.000 ORBINC = .000
 RUDDER = 15.000 ELEVON = .000
 RUDFLR = .000

SECTION (1) OMS POD OUTSIDE DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -0.350	X/LB	PHI
		110.000	.0280
		120.000	-.0980
MACH (1) = 1.555	BETAT (2) = -6.300	X/LB	PHI
		110.000	.0630
		120.000	-.0780
MACH (1) = 1.555	BETAT (3) = -4.250	X/LB	PHI
		110.000	.0140
		120.000	-.1330
MACH (1) = 1.555	BETAT (4) = -.110	X/LB	PHI
		110.000	-.0330
		120.000	-.1130
MACH (1) = 1.555	BETAT (5) = 4.000	X/LB	PHI
		110.000	.0360
		120.000	-.0960
MACH (1) = 1.555	BETAT (6) = 6.080	X/LB	PHI
		110.000	.0370
		120.000	-.1580
MACH (1) = 1.555	BETAT (7) = 8.130	X/LB	PHI
		110.000	-.0900
		120.000	-.1630
MACH (2) = 2.000	BETAT (1) = -0.320	X/LB	PHI
		110.000	.0380
		120.000	-.0290

AMES 97-707 1A9 ORA + S3 + T9 ORS FOR OUTSIDE

(RANGE)

SECTION (1) ORS FOR OUTSIDE DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (3) = -0.260	X/LB	PHI
		110.000	.0680
		120.000	-.0180
MACH (2) = 2.000	BETAT (3) = -4.210	X/LB	PHI
		110.000	.0260
		120.000	-.0510
MACH (2) = 2.000	BETAT (4) = -.110	X/LB	PHI
		110.000	.0350
		120.000	-.0270
MACH (2) = 2.000	BETAT (5) = 3.990	X/LB	PHI
		110.000	.0080
		120.000	-.0530
MACH (2) = 2.000	BETAT (6) = 6.090	X/LB	PHI
		110.000	.0140
		120.000	-.0630
MACH (2) = 2.000	BETAT (7) = 0.110	X/LB	PHI
		110.000	-.0140
		120.000	-.0530

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 33.8490 INCHES YMRP = 10.0000 INCHES
 ZREF = 33.8490 INCHES ZMRP = 10.0000 INCHES
 SCALE = 0.300 SCALE

PARAMETRIC DATA

BETAT = 0.000 ORBINC = 0.500
 RUDDER = 0.000 ELEVON = 0.500
 RUDFLR = 0.000

DEPENDENT VARIABLE CP

SECTION (1) LOWER WING
 MACH (1) = 1.555 ALPHAT(1) = -6.400

Y/B X/CW	.299	.364	.427	.534	.673	.780	.667
.000	.0480	.0040	.1250	.4840	.4550	.4240	.3970
.050							
.081							
.086							
.094							
.150							
.177							
.229							
.246							
.250							
.362							
.400							
.402							
.497							
.590							
.565							
.620							
.650							
.700							
.725							
.750							
.760							
.775							
.808							
.834							
.850							
.857							
.865							
.960							
.915							
.950							
.953							
.965							
.975							
.980							
.985							
.990							
.995							
.998							
.999							
1.000							
1.005							
1.010							
1.015							
1.020							
1.025							
1.030							
1.035							
1.040							
1.045							
1.050							
1.055							
1.060							
1.065							
1.070							
1.075							
1.080							
1.085							
1.090							
1.095							
1.100							
1.105							
1.110							
1.115							
1.120							
1.125							
1.130							
1.135							
1.140							
1.145							
1.150							
1.155							
1.160							
1.165							
1.170							
1.175							
1.180							
1.185							
1.190							
1.195							
1.200							
1.205							
1.210							
1.215							
1.220							
1.225							
1.230							
1.235							
1.240							
1.245							
1.250							
1.255							
1.260							
1.265							
1.270							
1.275							
1.280							
1.285							
1.290							
1.295							
1.300							
1.305							
1.310							
1.315							
1.320							
1.325							
1.330							
1.335							
1.340							
1.345							
1.350							
1.355							
1.360							
1.365							
1.370							
1.375							
1.380							
1.385							
1.390							
1.395							
1.400							
1.405							
1.410							
1.415							
1.420							
1.425							
1.430							
1.435							
1.440							
1.445							
1.450							
1.455							
1.460							
1.465							
1.470							
1.475							
1.480							
1.485							
1.490							
1.495							
1.500							

MACH (1) = 1.555 ALPHAT(2) = -6.350

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TABULATED PRESSURE DATA - IASB
 ANES 97-707 IAS O2A → S3 → T9 LOWER WING

(REOLD1)

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 1.555 ALPHA(2) = -6.330

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.150							
.177							
.229							
.246							
.250							
.362							
.403							
.402							
.497							
.550							
.565							
.670							
.690							
.710							
.725							
.790							
.780							
.775							
.878							
.834							
.890							
.857							
.865							
.932							
.925							
.990							
.953							
.965							
.299							
.364							
.427							
.534							
.673							
.780							
.887							
.1040							
.0330							
.1960							
.2480							
.3130							
.1630							
.1660							
.1480							
.150							
.177							
.229							
.246							
.250							
.362							
.403							
.402							
.497							
.550							
.565							
.670							
.690							
.710							
.725							
.790							
.780							
.775							
.878							
.834							
.890							
.857							
.865							
.932							
.925							
.990							
.953							
.965							

MACH (1) = 1.555 ALPHA(3) = -4.250

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.150							
.177							
.229							
.246							
.250							
.362							
.403							
.402							
.497							
.550							
.565							
.670							
.690							
.710							
.725							
.790							
.780							
.775							
.878							
.834							
.890							
.857							
.865							
.932							
.925							
.990							
.953							
.965							
.299							
.364							
.427							
.534							
.673							
.780							
.887							
.1040							
.0330							
.1960							
.2480							
.3130							
.1630							
.1660							
.1480							
.150							
.177							
.229							
.246							
.250							
.362							
.403							
.402							
.497							
.550							
.565							
.670							
.690							
.710							
.725							
.790							
.780							
.775							
.878							
.834							
.890							
.857							
.865							
.932							
.925							
.990							
.953							
.965							

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TABLATED PRESSURE DATA - 1A98
ANES 97-707 1A9 OSA + S3 + T9 LOWER WING

(RBDL01)

SECTION (1) LOWER WING
DEPENDENT VARIABLE CP

MACH (1) = 1.555 ALPHAT(4) = -2.190

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.808							
.834							
.890							
.857							
.865							
.920							
.905							
.950							
.953							
.965							

MACH (1) = 1.555 ALPHAT(5) = -.120

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.000							
.150							
.081							
.086							
.094							
.150							
.177							
.229							
.248							
.250							
.362							
.400							
.402							
.497							
.550							
.565							
.600							
.650							
.700							
.725							
.750							
.760							
.775							
.808							
.834							
.850							
.857							
.865							
.900							
.905							
.950							
.953							

.0470	.0490	.1980	.1820	.1250	.0900
.0820	.0570	.0810	.1040	.1740	.1740
.1470	.1870	.1340	.1430	.0730	.0940
.0600	.1110	.0470	.0310	.0400	.0240
.0820	.1160	.1040	.1160	.1850	.1510
.0000	.0000	.0000	.0000	.2310	.1680
.0000	.0000	.0000	.0000	.2380	.2270
.0000	.0000	.0000	.0000	.2490	.3030

AMES 97-707 IAS 02A + S3 + T9 LOWER WING

(RBCOLD1)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 ALPHAT(5) = -.120

MACH (1) = 1.555 ALPHAT(6) = 1.950

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.965	-.3380						
Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.1730	-.1160	.2490	.6800	.6350	.6980	.6130
.050			.1430	.1420	.1280	.1080	.1020
.081		-.0100					
.086	.0010						
.094				.1740	.2150	.1650	.1700
.150			.2530				
.177	.0020						
.229		.0710					
.246				.0980	.1200	.1720	.2480
.250	-.0300			.1820	.3490		.2790
.362	.400		.1350				
.400							
.412	.497	.2020		.1730	.1820		
.497			.1360				
.550							
.565							.1150
.600							
.650	.0560			-.0280	-.0150	.0770	
.700							
.725							
.750				-.0660		-.0260	-.0330
.760				-.0780	-.0950		
.775				-.0940			
.818							
.834	-.0400			-.1690	-.1440	-.1330	
.850							
.857		.0000					
.865	-.1760						
.900	-.2440			-.2130			-.1620
.905							
.950				-.2250	-.2180	-.2110	
.953				-.2840			
.965	-.3450						

MACH (1) = 1.955 ALPHAT(7) = 4.010

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.020	-.1920	-.1700	.2360	.6930	.6420	.6370	.6020
.050			.2400	.2190	.2080	.2250	.3090
.061							
.086		.0170					
.094							

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TABULATED PRESSURE DATA - 1A98

(R80L01)

ANES 97-707 1A9 02A + S3 + T9 LOWER WING

DEPENDENT VARIABLE CP

SECTION (1) LOWER WING

MACH (1) = 1.955 ALPHAT(7) = 4.010

Y/BW X/CM	.299	.364	.427	.534	.675	.780	.887
.190			.1800				
.177	.0298						
.229		.1300					
.246				.2660	.3020	.4470	.3860
.250	.0420			.3230	.3510		.2820
.362			.2270				
.407							
.402	.2150			.1400	.1760		
.497			.0740				.1180
.550					.0050	.0850	
.565							
.600							
.650	.0630						
.700							
.725							
.750							
.760							
.775							
.808							
.834	-.0080						
.840							
.857							
.865	-.1630						
.910	-.2380						
.905							
.950							
.955							
.965	-.3400						
Y/BW	.299	.364	.427	.534	.675	.780	.887
X/CM							
.140	-.2060	-.2260	.1780	.6850	.6300	.6570	.5960
.090				.2850	.2960	.4640	.4990
.181		.0250	.2770				
.066							
.094	.1640						
.150							
.177			.2120				
.229	.0640			.2230	.4230	.4690	.4370
.246		.1560					
.250							
.362	.0710			.3260	.4360	.4120	.4030
.407				.3260	.3400		.3190
.402			.2340				
.497	.2860						

MACH (1) = 1.955 ALPHAT(8) = 6.060

Y/BW X/CM	.299	.364	.427	.534	.675	.780	.887
.140	-.2060	-.2260	.1780	.6850	.6300	.6570	.5960
.090				.2850	.2960	.4640	.4990
.181		.0250	.2770				
.066							
.094	.1640						
.150							
.177			.2120				
.229	.0640			.2230	.4230	.4690	.4370
.246		.1560					
.250							
.362	.0710			.3260	.4360	.4120	.4030
.407				.3260	.3400		.3190
.402			.2340				
.497	.2860						

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TABLATED PRESSURE DATA - 1A9B

AMES 97-707 IAG OSA + S3 + T9 LOWER WING (RBCL01)

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 1.555 ALPHAT(9) = 8.130

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.806			-.0360				
.834	-.0420			-.0660	-.0460	-.0558	
.850			.0000				
.857							
.865	-.1850			-.1300			-.0780
.900	-.2530		-.2140				
.905				-.1750	-.1500	-.1370	
.950			-.2750				
.953							
.965	-.2700						

SECTION (2) LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 2.000 ALPHAT(1) = -8.360

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.000	.0560	.0280	.2650	.6230	.5370	.5250	.5710
.050			.0250	-.1140	-.1750	-.1890	-.1870
.081		.0610					
.086	.0250						
.094							
.150							
.177			.0080	-.0590	-.1240	-.1520	-.1740
.229	.0900						
.246		.0660		-.0640	-.1170	-.1280	-.1500
.250				.0260	.0290		-.1250
.362	.0390		.0390				
.400							
.402							
.497	-.0260			-.0120	-.0500		
.550							
.565			-.0150				-.1440
.600						-.0880	
.650					-.0670		
.700	-.0470			-.0810			
.725						-.1360	-.1470
.750			-.1060				
.760				-.1230	-.1030		
.775			-.1420				
.806							
.834	-.1300			-.1680	-.1440	-.1490	
.850			.0020				
.857							
.865	-.1650			-.1920			-.1750
.940	-.1750						
.945			-.1810				
.950				-.2050	-.1860	-.1650	
.953			-.1760				

TABLATED PRESSURE DATA - IA98

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ANES 97-707 IAS OEA + S3 + T9 LOWER MINE

(R0C0L01)

DEPENDENT VARIABLE CP

SECTION (1) LOWER MINE

MACH (2) = 2.000 ALPHAT(1) = -6.360

MACH (2) = 2.000 ALPHAT(2) = -6.310

	Y/BM	X/CM	.299	.364	.427	.534	.673	.780	.887
	.000	-.0140	.0200	.2660	-.0980	-.1630	-.1620	-.1600	
	.090	.081	.086	.094	.150	.177	.229	.246	.250
	.362	.400	.402	.497	.550	.565	.610	.650	.700
	.725	.750	.760	.775	.808	.834	.850	.857	.865
	.900	.905	.950	.955	.965	.299	.364	.427	.534
	.610	.650	.700	.725	.750	.760	.775	.808	.834
	.850	.857	.865	.900	.905	.950	.955	.965	.299
	.2660	-.0980	-.1630	-.1620	-.1600				
	.0330	.0120	.0580	.0280	.0570				
	.0610	-.0610	-.0940	-.0920	-.1120				
	.0450	.0450	.0450	.0450	.0450				
	-.0190	-.0190	-.0290	-.0280					
	-.0700	-.0700							
	-.1180	-.1180							
	-.1270	-.1270							
	-.1730	-.1730							
	-.1960	-.1960							
	-.2040	-.2040							
	.6160	.6160							
	-.0580	-.0580							
	.0410	.0410							
	.0060	.0060							
	.1694	.1694							

MACH (2) = 2.000 ALPHAT(3) = -4.230

	Y/BM	X/CM	.299	.364	.427	.534	.673	.780	.887
	.100	-.0300	.0080	.2380	.6160	.5250	.5330	.6280	
	.050	.061	.086	.094	.150	.177	.229	.246	.250
	.362	.400	.402	.497	.550	.565	.610	.650	.700
	.725	.750	.760	.775	.808	.834	.850	.857	.865
	.900	.905	.950	.955	.965	.299	.364	.427	.534
	.610	.650	.700	.725	.750	.760	.775	.808	.834
	.850	.857	.865	.900	.905	.950	.955	.965	.299
	.2660	-.0980	-.1630	-.1620	-.1600				
	.0330	.0120	.0580	.0280	.0570				
	.0610	-.0610	-.0940	-.0920	-.1120				
	.0450	.0450	.0450	.0450	.0450				
	-.0190	-.0190	-.0290	-.0280					
	-.0700	-.0700							
	-.1180	-.1180							
	-.1270	-.1270							
	-.1730	-.1730							
	-.1960	-.1960							
	-.2040	-.2040							
	.6160	.6160							
	-.0580	-.0580							
	.0410	.0410							
	.0060	.0060							
	.1694	.1694							

A

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TABLULATED PRESSURE DATA - IA98
 AMES 97-707 IA9 OEA + S3 + T9 LOWER MING

(RBOLD1)

SECTION (1) LOWER MING DEPENDENT VARIABLE: CP

MACH (2) = 2.000 ALPHAT(4) = -2.210

Y/BM X/CM	.299	.364	.427	.534	.673	.780	.887
.550			.0080				
.565				.0170	.0350		
.600							.0410
.650							
.700	-.0320						
.725							
.750							
.760			-.0760				
.775							
.828							
.834							
.850							
.857			.0000				
.865							
.900							
.905							
.950							
.953							
.965							

MACH (2) = 2.000 ALPHAT(5) = -1.160

Y/BM X/CM	.299	.364	.427	.534	.673	.780	.887
.000							
.050							
.061							
.066							
.094							
.150							
.177							
.229							
.246							
.250							
.362							
.400							
.402							
.497							
.550							
.565							
.620							
.650							
.700							
.725							
.750							
.760							
.775							

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

(BOLD)

AMES 97-707 1A9 C2A + S3 + T9 LOWER WING

SECTION (2) = 2.000 LOWER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 ALPHAT(5) = -.160

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.808			-.0670				
.834	-.0900						
.850			.0000	-.0390	-.0560	-.0760	
.857							
.865	-.1010			-.0790			-.0860
.900	-.1140						
.905			-.0830				
.950				-.1010	-.0870	-.0800	
.953			-.1270				
.965	-.1820						

MACH (2) = 2.000 ALPHAT(6) = 1.880

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.0690	-.0510	.2070	.7150	.6590	.6790	.7060
.050				.0680	.0100	.0250	.0230
.081		.0110					
.086							
.094	.0360						
.150				.0770	.1070	.0990	.1080
.177			.1050				
.229	.0240	.0690					
.246				.0740	.0690	.1250	.1400
.250							
.362	.0390			.1800	.2430		.1510
.400							
.402			.1390				
.497	.0920			.0960	.1280		
.550							
.565			.0950				.1190
.600						.0900	
.650					.0850		
.720	.0100			.0240			
.725						.0300	.0280
.750			-.0010				
.760				.0210	.0230		
.775			-.0090				
.818							
.834	-.0490			-.0270	.0250	.0010	
.850			.0240				
.857							
.865	-.0820			-.0700			-.0630
.920	-.0750		-.0570				
.945				-.0820	-.0710	-.0160	
.950			-.0070				
.953							

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TABLULATED PRESSURE DATA - 1A98
 A6E5 97-707 1A9 O2A + S3 + T9 LOWER WING

(RECOL01)

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 2.000	ALPHAT(6) = 1.890	Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
		.965	-.1670						
MACH (2) = 2.000	ALPHAT(7) = 3.950	Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
		.000	-.0930	-.0940	.2320	.7580	.6800	.7000	.7030
		.050				.1570	.1140	.1210	.1510
		.081		.0290					
		.086							
		.094	.0450						
		.150							
		.177			.1510				
		.229	.0350			.1330	.1890	.1980	.2190
		.246		.0970					
		.250				.1490	.1780	.2120	.2390
		.362	.0590						
		.400				.1560	.2720		.2870
		.402			.1490				
		.497	.0690						
		.550			.1030	.1830	.2080		
		.565							.1570
		.600						.1710	
		.650	.0330			.0710	.1200		
		.710						.1340	.0570
		.725							
		.750			.0280				
		.760				.0490	.1070		
		.775			.0350				
		.808							
		.834	-.0160						
		.850				-.0190	.0390	.0460	
		.857			.0000				
		.865	-.0420						.0190
		.900	-.0750			-.0580			
		.925			-.0730				
		.950				-.0620	-.0540	-.0560	
		.953			-.1170				
		.965	-.1660						
MACH (2) = 2.000	ALPHAT(8) = 5.960	Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
		.000	-.1270	-.1220	.2280	.7730	.6940	.7290	.7080
		.050				.2200	.2260	.2620	.3170
		.081			.1970				
		.086		.0330					
		.094							
		.150							
		.177							
		.229							
		.246							
		.250							
		.362							
		.400							
		.402							
		.497							
		.550							
		.565							
		.600							
		.650							
		.710							
		.725							
		.750							
		.760							
		.775							
		.808							
		.834							
		.850							
		.857							
		.865							
		.900							
		.925							
		.950							
		.953							
		.965							

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TABULATED PRESSURE DATA - IA98
AMES 97-707 1A9 O2A + S3 + T9 LOWER MING

(RROLD1)

SECTION (1) LOWER MING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 ALPHAT(9) = 8.020

Y/BW X/CM	.550	.565	.600	.650	.700	.725	.750	.760	.775	.808	.834	.850	.857	.865	.900	.905	.920	.933	.965
	.299	.364	.427	.534	.673	.780	.887	.990	1.090	1.190	1.290	1.390	1.490	1.590	1.690	1.790	1.890	1.990	2.090

AXES 97-707 IAS OEA + S3 + T9 LOWER WING.

(RUCLOE) (24 MAY 75)

REFERENCE DATA

SREF = 2.4210 96.FT. XWRP = 26.5300 INCHES
LREF = 39.8490 INCHES YWRP = .0000 INCHES
BREF = 39.8490 INCHES ZWRP = .0000 INCHES
SCALE = .0300 SCALE

SECTION (1) LOWER WING

MACH (1) = 1.555 BETAT (1) = -7.140

DEPENDENT VARIABLE CP

Y/BM .299 .364 .427 .534 .673 .780 .887

X/CM .000 -.0360 -.0740 .070 .6350 .6620 .7070

ALPMAT = 8.000 ORBINC = .500

RUDSER = .050 ELEVON = .050

RUDFLR = .050

.090	.061	.086	.094	.190	.177	.229	.246	.290	.362	.400	.402	.497	.550	.565	.600	.650	.710	.725	.750	.775	.818	.834	.890	.857	.865	.910	.915	.950	.933	.965					
.000	-.0360	-.0740	.070	.6350	.6620	.7070	.5770	.5980	.5970	.6120	.4320	.5030	.5040	.5760	.4050	.5070	.4650	.3640	.3620	.1840	.2730	.1640	.1420	-.0320	.0250	.0270	-.0970	.0110	-.1470	-.0970	-.0610	.534	.673	.780	.887
.000	-.0360	-.0740	.070	.6350	.6620	.7070	.5770	.5980	.5970	.6120	.4320	.5030	.5040	.5760	.4050	.5070	.4650	.3640	.3620	.1840	.2730	.1640	.1420	-.0320	.0250	.0270	-.0970	.0110	-.1470	-.0970	-.0610	.534	.673	.780	.887
.000	-.0360	-.0740	.070	.6350	.6620	.7070	.5770	.5980	.5970	.6120	.4320	.5030	.5040	.5760	.4050	.5070	.4650	.3640	.3620	.1840	.2730	.1640	.1420	-.0320	.0250	.0270	-.0970	.0110	-.1470	-.0970	-.0610	.534	.673	.780	.887

PARAMETRIC DATA

ALPMAT = 8.000 ORBINC = .500
RUDSER = .050 ELEVON = .050
RUDFLR = .050

MACH (1) = 1.555 BETAT (2) = -5.100

Y/BM .299 .364 .427 .534 .673 .780 .887

X/CM .000 -.0360 -.0740 .070 .6350 .6620 .7070

ALPMAT = 8.000 ORBINC = .500

RUDSER = .050 ELEVON = .050

RUDFLR = .050

.090	.061	.086	.094	.190	.177	.229	.246	.290	.362	.400	.402	.497	.550	.565	.600	.650	.710	.725	.750	.775	.818	.834	.890	.857	.865	.910	.915	.950	.933	.965					
.000	-.0360	-.0740	.070	.6350	.6620	.7070	.5770	.5980	.5970	.6120	.4320	.5030	.5040	.5760	.4050	.5070	.4650	.3640	.3620	.1840	.2730	.1640	.1420	-.0320	.0250	.0270	-.0970	.0110	-.1470	-.0970	-.0610	.534	.673	.780	.887
.000	-.0360	-.0740	.070	.6350	.6620	.7070	.5770	.5980	.5970	.6120	.4320	.5030	.5040	.5760	.4050	.5070	.4650	.3640	.3620	.1840	.2730	.1640	.1420	-.0320	.0250	.0270	-.0970	.0110	-.1470	-.0970	-.0610	.534	.673	.780	.887
.000	-.0360	-.0740	.070	.6350	.6620	.7070	.5770	.5980	.5970	.6120	.4320	.5030	.5040	.5760	.4050	.5070	.4650	.3640	.3620	.1840	.2730	.1640	.1420	-.0320	.0250	.0270	-.0970	.0110	-.1470	-.0970	-.0610	.534	.673	.780	.887

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UNBULATED PRESSURE DATA - IA98
AMES 97-707 IAS CEA + S3 + T9 LOWER WING

(RBL012)

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (2) = -5.100	Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
		.150							
		.177			.5360				
		.229	.1180						
		.246		.2660					
		.250				.4130	.4510	.5560	.5450
		.362	.1680			.3800	.4880		.4250
		.400			.2800				
		.412							
		.497	.4510			.2980	.3150		
		.550			.2800				.2550
		.565						.2230	
		.600							
		.650							
		.710	.2470			.1690	.1560		
		.725						.1400	.1080
		.750							
		.760			.0680				
		.775			.0270		.0740		
		.808							
		.834	.0170			-.0230	.0170	.0190	
		.850							
		.857			.0700				
		.855	-.1360						-.0070
		.920	-.1940			-.0990			
		.915			-.1690				
		.950				-.1530	-.0950	-.0750	
		.953			-.2410				
		.965	-.2970						

SECTION (3) LOWER WING DEPENDENT VARIABLE CP

MACH (3) = 1.555	BETAT (3) = -3.090	Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
		.010							
		.090							
		.081							
		.086							
		.094				.7850	.7230	.6880	.5360
		.150				.5210	.6260	.6010	.6370
		.177			.3760				
		.229	.1920						
		.245		.2270		.5020	.5480	.5210	.5540
		.250							
		.362	.1360			.4460	.4190	.5180	.5258
		.400				.2980	.4710		.4070
		.402			.2640				
		.497	.4460						

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TABLATED PRESSURE DATA - 1A98

(RBOLD2)

AMES 97-707 1A9 02A + S3 + T9 LOWER WING

DEPENDENT VARIABLE CP

SECTION (1) LOWER WING

MACH (1) = 1.555 BETAT (5) = 7.140

MACH (1) = 1.555 BETAT (6) = 9.190

	Y/BM	.299	.364	.427	.534	.673	.780	.887
X/CM	.965	-.1640						
Y/BM	.299	.364	.427	.534	.673	.780	.887	
X/CM	.000	-.3090	-.2560	-.1050	.2760	.3880	.4170	.3030
	.090			.2630	.2610	.3250	.3430	.3780
	.081		-.0640					
	.086							
	.094		.0280		.2110	.2780	.2930	.3120
	.150			.2050				
	.177							
	.229	.0020	.1370					
	.246			.1210	.1690	.2540	.2850	
	.250			.1160	.2100		.2120	
	.362	.1550						
	.400		.0180					
	.402							
	.497	-.0270		.1140	.1180			
	.550		.0940					.0910
	.565						.0500	
	.600			-.0850	-.1080	-.0830		
	.680		.1080					
	.700			-.0690			-.0200	-.0440
	.725							
	.750							
	.765							
	.775			-.1680				
	.808							
	.834	-.1060			-.1980	-.1340	-.1170	
	.850			.0000				
	.857							
	.865	-.2030			-.2500			-.1370
	.877	-.2210						
	.905			-.2870	-.2900	-.2190	-.1810	
	.950			-.2630				
	.953							
	.965	-.1990						

MACH (2) = 2.000 BETAT (1) = -8.320

	Y/BM	.299	.364	.427	.534	.673	.780	.887
X/CM	.000	.0750	.0620	.5010	1.1050	.9680	.9620	.8800
	.150			.4070	.4730	.5350	.5910	
	.181		.1930	.3400				
	.186							
	.194							

SECTION (1) LOWER WING
 ANES 97-707 IAS OCA + S3 + T9 LOWER WING

(RBOLD2)

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (1) = -8.320

Y/BW X/CM	.299	.364	.427	.534	.673	.780	.867
.150							
.177							
.229			.3340		.4920	.5050	.5510
.246	.2530						
.250				.3250	.4070	.5000	.5670
.362	.1470						
.400				.3210	.6700		.6130
.402			.4860				
.497	.1600						
.550				.4650	.5070		
.565			.4230				
.620							
.650						.4320	.4530
.700	.3240				.3170		
.725				.2250			
.750						.3120	.3000
.760			.2150				
.775				.1480	.2020		
.808			.1640				
.834	.2410						
.850					.1110	.1480	.1780
.857			.0000				
.865	.1280						
.900	.0500			.0780			.1520
.905							
.950				.0780			
.953					.0150	.0360	.0540
.965	-.0860						

MACH (2) = 2.000 BETAT (2) = -6.270

Y/BW X/CM	.299	.364	.427	.534	.673	.780	.867
.000							
.050	.0250	.0050	.4430	1.0220	.9180	.9140	.8350
.081				.3700	.4150	.4610	.5460
.096		.1600	.3060				
.094	.1140						
.150							
.177							
.229	.1240		.2900				
.246							
.250	.2290						
.362	.1260			.2750	.3530	.4420	.4830
.400							
.402			.3900		.2580	.4840	.5740
.497	.1270						

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TABLULATED PRESSURE DATA - 1A9B

(R80L02)

SECTION (1) LOWER WING

MACH (2) = 2.000 BETAT (2) = -6.270

DEPENDENT VARIABLE CP

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.867
.530							
.565			.3280		.5200		.4020
.620						.4120	
.650							
.700	.2960			.2910		.2320	.2740
.725							
.750			.1990				
.761			.1460		.1900		
.775							
.808							
.834	.1790			.0920	.1150	.1610	
.850			.0000				
.857							
.865	.0990			.0900			.1410
.900	.0320		.0250			.0640	
.905							
.950				.0230	.0060		
.953							
.965	-.0980		-.0150				

MACH (2) = 2.000 BETAT (3) = -4.210

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.867
.000	-.0450	-.0820	.3650	.9240	.8480	.8550	.7810
.050				.3310	.3890	.4420	.5000
.081		.1230	.2770				
.086							
.094	.0690						
.150							
.177			.2520	.2950	.4070	.4200	.4540
.229	.0950						
.246		.1940					
.250				.2480	.3130	.3930	.4320
.362	.1080						
.400				.2540	.4130		.4130
.402			.3630				
.497	.1250						
.550				.4530	.5440		
.565			.3110				.4290
.600						.4020	
.650	.2440						
.700							
.725			.1720				
.750						.2730	.2740
.760							
.775			.1370				
				.1620	.1470		

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TABULATED PRESSURE DATA - 1A98
 ANES 97-707 1A9 C2A + S3 + T9 LOWER MINE

(RBCLO2)

SECTION (1) LOWER MINE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.210

Y/BM X/CW	.299	.364	.427	.534	.673	.760	.887
.808			.0990				
.834	.1520			.0200	.0830	.1370	
.890		.0000					.1180
.857	.0680		.0200				
.900	-.0010		.0220				
.905			-.0050	-.0140	.0380		
.950			-.0460				
.953							
.965	-.1190						

MACH (2) = 2.000 BETAT (4) = 3.990

Y/BM X/CW	.299	.364	.427	.534	.673	.760	.887
.000			.0630	.6090	.5940	.6010	.5380
.050			.1940	.2730	.3370	.3870	.4360
.081		.0070					
.086							
.094	-.0040			.2480	.3680	.3690	.4130
.150			.2070				
.177							
.229	.0290	.1120		.2740	.3030	.3650	.3980
.246							
.250				.1560	.3180		.3720
.362	.0750		.0890				
.400							
.412	.1410			.1210	.2000		
.497			.0700				.2420
.550							
.565							
.610							
.650							
.700	-.0170			.0900	.0860	.1920	
.725							
.790			.0010			.1120	.1200
.760				-.0020	.0240		
.775			-.0200				
.818							
.834	.0090			-.0700	.0510	.0440	
.850			.0000				
.857							
.865	-.0690			-.1000			.0920
.900	-.1180		-.0910				
.905				-.1069	-.0610	-.0430	
.950			-.1350				
.953							

(RBCOLDP)

ANES 97-707 1A9 02A + S3 + T9 LOWER WING

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = 3.990	Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
		.965	-.1730						
MACH (2) = 2.000	BETAT (5) = 6.060	Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
		.000	-.2050	-.0420		.4720	.5350	.5580	.4680
		.060				.2610	.3620	.3760	.3990
		.081		.1490					
		.066	-.0220						
		.094	-.0200			.2660	.3460	.3100	.3400
		.150							
		.177		.2180					
		.229	.0060						
		.246		.0620					
		.250				.1510	.1920	.2710	.3160
		.362	.0150			.1150	.2720		.3020
		.400							
		.402		.0480					
		.497	.1070			.0660	.1350		
		.550		.0280					
		.565							.2570
		.600					.0410	.1870	
		.690							
		.700	-.0320			.0110		.0730	.1590
		.725							
		.750		.0050					
		.760							
		.775		-.0060		-.0110	-.0240		
		.808							
		.834	-.0080			-.0530	-.0560	-.0210	
		.850							
		.857		.0000					
		.865	-.1040						.0570
		.900	-.1440			-.0810			
		.905		-.1110					
		.950				-.0990	-.0980	-.0370	
		.953		-.1560					
		.965	-.1420						

MACH (2) = 2.000 BETAT (6) = 6.120

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.2220	-.2520	-.1210	.3490	.6020	.6190	.5340
.050				.2270	.4050	.4080	.4370
.081			.1210				
.066		-.0550					
.094							
.150							
.177							
.229							
.246							
.250							
.362							
.400							
.402							
.497							
.550							
.565							
.600							
.690							
.700							
.725							
.750							
.760							
.775							
.808							
.834							
.850							
.857							
.865							
.900							
.905							
.950							
.953							
.965							

AMES 97-707 1A9 02A + S3 + T9 LOWER MING

(RB0102)

SECTION 1 LOWER MING DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 8.120

Y/BW X/CM	.299	.364	.427	.534	.673	.780	.887
.150				.2080	.3710	.5340	.7440
.177		.1810					
.229	-.0270						
.246		.0150					
.250				.1830	.2020	.2930	.3530
.362	-.0400			.1390	.2910		.3640
.400			.0310				
.402							
.497	.0830			.1650	.1930		
.550		.1080					
.565							
.600						.1720	.2370
.650							
.700	.0260			.0900	.0970		
.725							
.750			.0080			.0780	.1000
.760							
.775			-.0500		.0320		
.808							
.834	-.0500			-.0440		.0100	
.850							
.857							
.865	-.1230						
.900	-.1520			-.0860			.0070
.915			-.1350				
.950				-.1130			
.953			-.1730				
.965	-.1470						

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TABLATED PRESSURE DATA - 1A98

AMES 97-707 1A9 02A + S3 + T9 LOWER MING

SECTION (1) LOWER MING

MACH (1) = 1.555 BETAT (2) = -5.07U

DEPENDENT VARIABLE CP

Y/BM X/CM

.195	.299	.364	.427	.534	.675	.780	.887
.177	.560U		.5130				
.229		.2520					
.246				.4350	.4040	.4820	.4850
.290	.1590			.3140	.4280		.3790
.362			.2810				
.400							
.402	.5000			.2450	.2760		
.497			.2140				
.550							
.565							
.600							
.650	.2150			.1130	.0980	.1750	.2110
.700							
.725							
.750			.0910			.0760	.0610
.76U				.0580	.0340		
.775			.0190				
.808							
.834	.0490						
.85U							
.857			.02700				
.865	-.1210						
.900	-.1930						
.905			-.1700				
.950							
.953			-.2350				
.965	-.3120						

MACH (3) = 1.555 BETAT (3) = -3.050

Y/BM X/CM

.000	.299	.364	.427	.534	.675	.780	.887
.050	-.1300	-.1300	.2670	.7670	.7210	.7360	.6120
.081			.3240	.3150	.5180	.5440	.5510
.086		.0950					
.094	.0210						
.150							
.177			.2670	.5340	.5700	.4780	.4870
.229	.1180						
.246		.1900					
.250				.4280	.4100	.4600	.4560
.362	.1040						
.400				.3070	.3940		.3560
.402			.3310				
.497	.4510						

(R00L03)

(RBCLOS)

AMES 97-707 1A9 O2A + S3 + T9 LOWER WING

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -3.050

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.550							
.565		.1710		.2260	.2520		.1920
.600					.1540		
.650							
.700	.1690			.1020	.0750		
.725						.0550	.0430
.750							
.760		.0590					
.775				.0260	-.0070		
.808			-.0070				
.834	.0360						
.850				-.0740	-.0310	-.0540	
.857		.0200					
.865	-.1340						
.900	-.2060			-.1250			-.0800
.905							
.950			-.1840				
.953				-.1710	-.1440	-.1380	
.965	-.3250						

MACH (1) = 1.555 BETAT (4) = 5.060

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.140							
.050	-.3320	-.2690	.0330	.6130	.5870	.5880	.4800
.081			.3670	.3960	.4170	.4020	.4200
.086		-.0400					
.084	.0150						
.150							
.177				.3110	.3480	.3460	.3650
.229	.0120		.3140				
.246		.1600					
.290				.2100	.2530	.3240	.3390
.362	.0400						
.400				.1600	.2610		.2690
.402			.1020				
.497	.1770						
.550				.1600	.2000		
.565			.1310				
.600							.1580
.650						.1210	
.700	.1080			.0150	.0400		
.725							
.750			-.0250			.0170	.0430
.760							
.775				-.0410	-.0310		

MACH (1) = 3.555 BETAT (4) = 5.080

SECTION (3) LOWER WING

DEPENDENT VARIABLE CP

(RBL03)

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.808							
.834	-.1010						
.850							
.857							
.865	-.2310						
.900	-.2850						
.905							
.950							
.953							
.965	-.1710						

MACH (1) = 3.555 BETAT (5) = 7.110

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.000							
.050	-.3590	-.2670	.0410	.4550	.4770	.4770	.3350
.081				.3300	.3410	.3310	.3790
.086							
.094	-.0280	.0150	.3160				
.150							
.177							
.229	.0470		.2640	.2570	.3020	.2750	.3250
.246							
.250							
.362	.1980						
.400							
.402							
.497	.1160						
.550							
.565							
.610							
.650							
.700	.0890						
.725							
.750							
.760							
.775							
.808							
.834	-.1180						
.850							
.857							
.865	-.2360						
.900	-.2300						
.905							
.950							
.953							

(RBD003)

AMES 97-707 1A9 02A + S3 + T9 LOWER WING

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (5) = 7.110	Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
		.565	-.1880						
MACH (1) = 1.555	BETAT (5) = 9.140	Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
		.500	-.2900	-.2390	-.0570	.3250	.3860	.4260	.3500
		.500			.2520	.2380	.2840	.2780	.3090
		.581							
		.586		-.1680					
		.694	.0070						
		.190			.1500	.2420	.2300	.2510	
		.177			.1900				
		.229	-.0140						
		.246		.1490					
		.250			.0920	.1370	.2170	.2280	
		.362	.1330		.1000	.1990		.1850	
		.400			.1050				
		.402					.1150	.1110	
		.497	-.0290						
		.550			.0930				
		.565							
		.600							.0670
		.650						.0340	
		.720	.0190						
		.750							
		.760							
		.775							
		.818							
		.834	-.1230						
		.850							
		.857							
		.865	-.2250						
		.920	-.2100						
		.945							
		.950							
		.953							
		.965	-.1990						
		.965							

MACH (2) = 2.100	BETAT (1) = -8.300	Y/BW X/CW	.299	.374	.427	.534	.673	.780	.887
		.140	.0520	.0700	.4810	1.0760	.9760	.9730	.8270
		.550			.3570	.3780	.4280	.4640	
		.681			.3110				
		.686							
		.694	.1740						
		.694	.1410						

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TABULATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 OCA + S3 + T9 LOWER WING

(RBD03)

DEPENDENT VARIABLE CF

SECTION (1) LOWER WING

MACH (2) = 2.0000 ESTAT (1) = -0.300

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.150			.3050				
.177							
.229	.1410						
.246		.2330					
.250				.2890	.3340	.4030	.4390
.362	.1430			.2580	.4680		.4360
.400			.3630				
.402							
.497	.1480			.5370	.5400		.1670
.590			.3870				
.565							
.600							
.690							
.700	.3770			.2190	.3030	.4390	
.725							
.750			.1820				
.760				.1440	.1860		
.775			.1530				
.806							
.834	.2240			.0670	.1190	.1590	
.850			.0000				
.857							
.865	.1090			.0630			.1450
.900	.0460						
.905			.0720				
.950				.0180	.0150	.0610	
.953							
.965							

SECTION (2) UPPER WING

BETA

.250

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.000							
.050							
.080							
.086							
.094	.1080			.3000	.3920	.3990	.4250
.130							
.170	.1080		.2500				
.229		.2180					
.246				.2320	.3090	.3730	.4060
.250							
.362	.1210			.2060	.3940		.3920
.400							
.402							
.497	.1200		.3390				

(RBOLOS)

AMES 97-707 1A9 OEA + S3 + T9 LOWER WING

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (2) = -6.250	Y/BW	.299	.364	.427	.534	.673	.780	.897
		X/CW							
		.550							
		.565		.3190		.4300	.4690		.2640
		.600						.4000	
		.650					.2860		
		.705	.2600			.2060			
		.725						.3500	.2170
		.750							
		.760		.1780		.1320	.1870		
		.775			.1260				
		.808				.0660	.1130	.1520	
		.834	.1620		.0000				
		.857							
		.865	.0980			.0350			.1420
		.900	.0170		.0280				
		.905				.0170	-.0030	.0560	
		.950							
		.953			-.0270				
		.965	-.1140						

MACH (2) = 2.000 BETAT (3) = -4.200

MACH (2) = 2.000	BETAT (3) = -4.200	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
		.100							
		.150							
		.181							
		.186							
		.194	.0800						
		.190		.1080					
		.177			.2130				
		.229	.1870						
		.246		.1790					
		.250				.2250	.2680	.3350	.3770
		.362	.0960			.1730	.3580		.3620
		.400							
		.412			.3020				
		.497	.1560						
		.550				.3950	.4110		
		.565			.2840				
		.600							.2260
		.650					.2800	.4340	
		.700	.1530		.2160				
		.725							.2180
		.750			.1450			.2850	
		.760							
		.775				.1060	.1550		

TABLULATED PRESSURE DATA - 1A98

AMES 97-707 IAS OEA + S3 + T9 LOWER WING

DEPENDENT VARIABLE CP

SECTION (1) LOWER WING

MACH (2) = 2.000 BETAT (4) = 3.070
 Y/BW .299 .364 .427 .534 .673 .780 .887
 X/CW .965 -.1550

MACH (2) = 2.000 BETAT (5) = 6.030
 Y/BW .299 .364 .427 .534 .673 .780 .887
 X/CW .000 -.2010 -.0190 .5010 .5000 .5150 .5020
 .090 .2420 .3000 .3420

.081 .1215
 .086 -.0300
 .094 .1930 .3290 .3030 .3090
 .150 .1710

.229 .0050 .0320
 .246 .1740 .2060 .2550 .2750
 .250 .0950 .2400 .2530
 .362 .0410 .0380

.410 .0380
 .412 .0520 .1220 .1500
 .497 .0180 .1120
 .550 .0140 .1420 .0800

.565 .0510 .0470
 .610 .0290 .1040
 .650 .1090 .1050 .10010
 .700 -.0560 .0940 .1370 .1050
 .725 .1570

.750 .0230
 .760 .1000
 .775 .0800
 .808 .0834 .0870 .0440
 .850 .0850 .1000

.857 .0865 .1140
 .910 .0910 .1560
 .915 .0915 .1090
 .950 .0950 .1570 .1050
 .953 .0953 .1440

.965 .0965 .1440
 Y/BW .299 .364 .427 .534 .673 .780 .887
 X/CW .140 .2340 .1040 .3580 .5820 .6140 .5400
 .050 .1840 .3310 .3600 .3660
 .081 .0790
 .086 -.0600
 .094 -.1460

SECTION (2) = 2.000 BETAT (6) = 6.080

Y/BW .299 .364 .427 .534 .673 .780 .887
 X/CW .140 .2340 .1040 .3580 .5820 .6140 .5400
 .050 .1840 .3310 .3600 .3660
 .081 .0790
 .086 -.0600
 .094 -.1460

(RBDL03)

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 2.140 BETAT (6) = 8.180

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.150			.1530	.1860	.3570	.3020	.3260
.177							
.229	-.0320						
.246		-.0110					
.250				.1770	.2010	.2530	.2870
.362	-.0590			.1080	.2380		.2690
.400			.0050				
.402							
.497	.0610			.1610	.1590		
.550			.0730				.1660
.565							
.600							
.650						.1600	
.710	.0140				.0900		
.725				.0640			
.750						.0750	.0940
.760			-.0060				
.775				.0150	.0330		
.818			-.0500				
.834	-.0740						
.850				-.0570	-.0110	.0010	
.857			.0000				
.865	-.1140						
.910	-.1430		-.1450	-.0960			-.0320
.915							
.950				-.1210	-.0840	-.0670	
.953			-.1770				
.965	-.1750						

AMES 97-707 IA9 O2A + S3 + T9 LOWER WING

(RBOLD4) (24 MAY 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = .0000 INCHES
 BREF = 39.8490 INCHES ZMRP = .0000 INCHES
 SCALE = .0300 SCALE

ALPHAT = 4.000 ORBINC = .500
 RUDDER = .000 ELEVON = .000
 RUDFLR = .000

PARAMETRIC DATA

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 1.555	BETAT (1) = -7.050	Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
		.000	.0080	.0210	.4210	.0780	.8140	.8610	.7680
		.050			.2560	.2430	.3820	.5130	.5110
		.081		.0830					
		.086	.0550						
		.094							
		.150							
		.177	.0740		.2560				
		.229							
		.246		.1660					
		.250	.0740						
		.362							
		.400							
		.402		.3360					
		.497	.0040						
		.550			.2950				
		.565							
		.600							
		.650							.2540
		.710	.2650				.1210		
		.725							
		.750							.0530
		.760			.1170				
		.775					.0710	.0280	
		.808		.0440					
		.834	.0800						
		.850							
		.857							
		.865	-.0930						
		.900	-.1710						
		.905							
		.950							
		.953							
		.960	-.3010						
MACH (1) = 1.555	BETAT (2) = -3.070	Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
		.040	-.0610	-.0230	.3840	.8290	.7740	.8110	.7370
		.050							
		.081							
		.086			.2990				
		.094							
		.150							
		.177							
		.229							
		.246							
		.250							
		.362							
		.400							
		.402							
		.497							
		.550							
		.565							
		.600							
		.650							
		.710							
		.725							
		.750							
		.760							
		.775							
		.808							
		.834							
		.850							
		.857							
		.865	-.0930						
		.900	-.1710						
		.905							
		.950							
		.953							
		.960	-.3010						

ABLATED PRESSURE DATA - 1A9B

ALLES 97-707 1A9 OEA + S3 + T9 LOWER WING

(RBOL04)

SECTION 1 - LOWER WING

DEPENDENT VARIABLE CP

MACH (1.0) = 1.555 BETA = -0.070

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.150							
.177		.2330					
.229	.0320						
.246		.2010					
.250							
.362	.1170			.5120	.4250	.4270	.4260
.400				.3280	.3840		.3490
.402		.3390					
.497	.4310						
.550			.2110		.2400		
.555							
.600							
.650						.1550	.1590
.700	.2100			.1010	.0750		
.725							
.750			.0740			.0500	.0320
.760				.0460	.0120		
.775		.0220					
.808							
.834	.0590						
.850			.0200				
.857							
.865	-.1110						
.900	-.1880						
.905							
.950							
.953							
.965	-.3145						

MACH (1.0) = 1.520 BETA = -0.070

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.140							
.090							
.181							
.186		.0720					
.094	-.0130						
.150							
.177							
.229	.0730						
.246		.1500					
.250							
.362	.0740			.3740	.4530	.4440	.4140
.400				.3280	.3730		.3150
.402							
.497		.3080					
.550							
.555							
.600							
.650							
.700	.2100						
.725							
.750							
.760							
.775							
.808							
.834	.0590						
.850							
.857							
.865	-.1110						
.900	-.1880						
.905							
.950							
.953							
.965	-.3145						

SECTION (1) LOWER MING

MACH (1) = 1.555 BETAT (3) = -3.140

DEPENDENT VARIABLE CP

Y/BW X/CM	.299	.364	.427	.534	.673	.780	.887
.550			.1540	.1920	.2100		.1600
.565						.1270	
.600							
.650							
.700	.1450			.0450			
.725							
.750							
.760			.0450			.0250	.0070
.775			-.1610	-.0220	-.0370		
.800							
.834	.0360			-.0970	-.0650	-.1050	
.850			.0270				
.857							
.865	-.1250			-.1330			-.1160
.900	-.2010		-.1850				
.905				-.1780	-.1570	-.1600	
.950			-.2620				
.953							
.965	-.3230						

MACH (1) = 1.555 BETAT (4) = 3.160

Y/BW X/CM	.299	.364	.427	.534	.673	.780	.887
.600			.1020	.6480	.5840	.6020	.5390
.650	-.3090	-.2550		.2930	.3630	.3180	.3220
.686		-.0590	.2730				
.694	-.0250						
.750				.2890	.3120	.2750	.2840
.777			.2660				
.779	-.0310						
.846		.1080		.1810	.1890	.2610	.2670
.850							
.862	-.1410			.1430	.2320		.2160
.862			.1020				
.897	.1590						
.950			.0990	.1310	.1590		
.965							
.965						.0830	.1120
.970							
.975	.0670			.0410			
.975			-.0360				
.980							
.980				-.0690	-.1490		
.985							

DATE 2: SEP 68

TABULATED PRESSURE DATA - IA98

AMES 97-717 IA9 OEA + S3 + T9 LOWER WING

(RECOLUM)

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = 5.062

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.867
.808			-.0970				
.834	-.1080						
.850				-.1510	-.1150	-.1110	
.857		.0600					
.865	-.2360						
.917	-.2950			-.1770			-.1470
.915			-.2540				
.950					-.2140	-.1780	
.953			-.3110				
.965	-.1880						

MACH (1) = 1.555 BETAT (5) = 7.082

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.867
.000							
.050	-.3310	-.2110	.1030	.5260	.5270	.4820	.4410
.081			.2870	.2770	.2630	.2440	.2700
.086		-.0130					
.094	-.0730						
.150			.2280	.2170	.2325	.2680	.2140
.177							
.229	.0280						
.246		.2120					
.250				.1190	.1380	.1870	.2400
.362	.1590			.0780	.1670		.1850
.400			.1670				
.412							
.497	.1130						
.550			-.0160	.0550	.0330		
.565							
.600							
.650	-.0750				-.0580		.0780
.710						.0440	
.725				-.0250			
.750							
.760			-.0750			-.0950	-.0590
.775							
.808				-.0970	-.1180		
.834			-.1510				
.850	-.1330						
.857			.0600	-.1730	-.1360	-.1510	
.865	-.2490						
.911	-.2580						
.915			-.2870	-.2180			-.1770
.950							
.953				-.2540	-.2010	-.2240	
.965			-.3360				

DATE 21 SEP 75

TABLULATED PRESSURE DATA - 1A98
 ANES 97-757 IA9 O2A + S3 + T9 LOWER MING

(RBLU4)

DEPENDENT VARIABLE CP

SECTION (1) LOWER MING

MACH (1) = 1.555 BETAT (5) = 7.580

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW	.965	-.2040					

MACH (1) = 1.555 BETAT (6) = 9.100

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW	.000	-.2140	.0220	.3940	.4290	.4620	.3840
	.050		.2180	.2070	.2230	.2140	.2060
	.081						
	.086	-.0580					
	.094			.1230	.2230	.1620	.1810
	.150		.1700				
	.177						
	.229	-.0430					
	.246	.1540		.0540	.0970	.1510	.1640
	.250			.0350	.1290		.1130
	.362	.0580					
	.414		-.0380				
	.412						
	.497	-.0240		.0890	.0980		
	.551		.0560				
	.565						
	.614					.0160	
	.651				-.0520		
	.714	.0100		-.0450			
	.724						
	.750						
	.760		-.0800				
	.775			-.0960	-.1120		
	.818		-.1570				
	.834	-.1020					
	.851			-.1940	-.1440	-.1560	
	.857		.0140				
	.865	-.2120					
	.914	-.2190		-.2540			
	.915		-.2870				-.2020
	.930			-.2910	-.2330	-.2160	
	.953	-.1920					
	.965		-.2960				

MACH (2) = 2.000 BETAT (1) = 5.270

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW	.1440	.0230	.0830	1.0220	.9540	.3660	.9350
	.050		.2670	.2730	.2240	.2440	.2810
	.081						
	.086						
	.094		.1310				
	.194	.1530					

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

(RBOLDM)

AVES. 97-707 1A9 OSA + S3 + T9 LOWER WING

SECTION (1) LOWER WING

MACH (2) = 2.000 BETAT (2) = -6.240

DEPENDENT VARIABLE CP	Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
	.550			.2590	.3090	.2010		.2100
	.565					.2660	.1670	
	.600				.2000		.2740	.0820
	.650	.2100						
	.725			.1720	.1470	.1810		
	.750			.1220				
	.760				.0730	.1110	.1470	
	.775			.0300				
	.838	.1460			.0240			-.0040
	.834			.0160				
	.850				-.0120	.0030	.0430	
	.857			-.0340				
	.865	.0640						
	.900	.0040						
	.905							
	.950							
	.953							
	.965	-.1100						

MACH (2) = 2.000 BETAT (3) = -4.200

DEPENDENT VARIABLE CP	Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
	.020			.3560	.8850	.8160	.8260	.8110
	.050	-.0430	-.0210	.1880	.1930	.1470	.1640	.1810
	.061		.1670					
	.086							
	.094	.0920						
	.150							
	.177			.1750				
	.229	.0750			.1740	.2550	.2540	.2660
	.246		.1370					
	.250				.1750	.2210	.2690	.2920
	.362	.0800						
	.400			.2540	.1570	.3150		.3380
	.402							
	.497	.0790			.2610	.1840		
	.550			.2010				
	.565							
	.600						.1350	
	.650					.2430		
	.700	.1540			.1760			
	.725							
	.750			.1230				
	.760							
	.775				.1130	.1560		

DATE 21 SEP 79 TABULATED PRESSURE DATA - 1A98

AMES 97-707 1AS OSA + S3 + T9 LOWER WING (R80L04)

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.200

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.808			.0900				
.834	.1120			.0420	.0910	.1500	
.850			.0000				
.857							
.865	.0960			.0050			-.0240
.900	-.0170		-.0090				
.905				-.0320	-.0130	.0360	
.950			-.0460				
.953							
.965	-.1210						

MACH (2) = 2.000 BETAT (4) = 3.990

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.000			.0900	.5630	.5340	.5760	.5760
.090	-.1530	-.1660		.1450	.1520	.1600	.1660
.081			.1270				
.086		-.0270					
.094	-.0210						
.190			.1090	.1140	.1870	.1910	.2190
.177							
.229	-.0130						
.246		.0660					
.290				.1320	.1680	.2210	.2570
.362	.0960						
.400				.1210	.2060		.2930
.402			.0600				
.497	.0840						
.550			.0190	.1640	.1060		
.565							
.620							.1470
.650						.0900	
.700	-.0500			.0110	.0130		
.725						.0210	.0260
.790							
.780			-.0130				
.775				-.0360	-.0440		
.818			-.0400				
.834	-.0120						
.850			.0270	-.0940	-.0510	-.0120	
.857							
.865	-.0820						
.920	-.1300			-.1190			-.0670
.915			-.1110				
.950				-.1220	-.1140	-.0910	
.953			-.1470				

DATE 21 SEP 73

TABLATED PRESSURE DATA - 1A98

AMES 97-707 1A9 OEA + S3 + T9 LOWER WING

(RBOLD4)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (4) = 3.990	Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
		.963	-.1900						
MACH (2) = 2.000	BETAT (5) = 5.990	Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
		.000	-.1810	-.1940	-.0000	.4920	.4780	.5440	.5290
		.050			.0890	.1260	.1430	.1730	.2030
		.081		-.0390					
		.186							
		.194	-.0500			.1280	.1960	.2330	.2710
		.190			.1140				
		.177	-.0110	.0190					
		.229							
		.246				.1860	.1800	.2390	.2340
		.255				.0820	.1990		.2900
		.362	-.0100						
		.400		.0190					
		.402							
		.497	.0730			.0210	.0720		
		.550		-.0390					
		.565							
		.600						.0520	.0960
		.600					-.0000		
		.700	-.0610			.0280	-.0000	.0040	-.0000
		.725			.0120				
		.760			-.0240		-.0480		
		.775							
		.808							
		.834	-.0280			-.0880	-.0900	-.0510	
		.850			.0440				
		.857							
		.865	-.0170			-.1070			-.0580
		.900	-.1540						
		.905			-.1320				
		.950				-.1250	-.1280	-.1270	
		.953			-.1710				
		.965	-.1640						

MACH (2) = 2.000 BETAT (6) = 8.030

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.000	-.1870	-.2080	-.0630	.3620	.5690	.5980	.5730
.050			.0430	.1010	.2190	.2790	.2980
.081		-.0220					
.186							
.194							
.190							
.177							
.229							
.246							
.255							
.362							
.400							
.402							
.497							
.550							
.565							
.600							
.600							
.700							
.725							
.760							
.775							
.808							
.834							
.850							
.857							
.865							
.900							
.905							
.950							
.953							
.965							

DATE 21 SEP 73 TABULATED PRESSURE DATA - IA98

AMES 97-707 IA9 O2A + S3 + T9 LOWER WING

SECTION (3) LOWER WING DEPENDENT VARIABLE CP (RBCLD4)

MACH (2) = 2.000	BETAT (6) = 8.030	Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
		.150				.1460	.3490	.2920	.2790
		.177	.0900						
		.229	-.0230						
		.246	-.0240						
		.250			.1960	.1920	.2270	.2450	
		.362	-.0560		.0620	.2000		.2390	
		.400		-.0300					
		.402							
		.497	.0240		.1130	.1060			.1070
		.550		.0380				.0970	
		.565							
		.600							
		.650							
		.700	-.0160		.1480	.0760		.0440	.0110
		.725							
		.750							
		.760		-.0140					
		.775		-.0340		-.0200			
		.808							
		.834	-.0920						
		.850							
		.857							
		.865	-.1290						
		.900	-.1490						
		.915							
		.950		-.1520					-.0960
		.953		-.1860					
		.965	-.1670						

DATE 21 SEP 79

TABLATED PRESSURE DATA - IASB

ANES 97-707 IAS O2A + S3 + T9 LOWER MANG

(RBOLD5)

SECTION (1) LOWER MANG

MACH (1) = 1.555 BETAT (2) = -5.070

DEPENDENT VARIABLE CP

Y/BA	X/CA	CP
.150	.299	.427
.177	.364	.534
.229	.427	.673
.246	.482	.780
.250	.534	.867
.362	.599	.920
.400	.654	.952
.402	.709	.980
.497	.764	1.000
.530	.819	1.010
.565	.874	1.020
.600	.929	1.030
.650	.984	1.040
.700	1.039	1.050
.725	1.094	1.060
.750	1.149	1.070
.760	1.204	1.080
.775	1.259	1.090
.808	1.314	1.100
.834	1.369	1.110
.850	1.424	1.120
.857	1.479	1.130
.865	1.534	1.140
.900	1.589	1.150
.905	1.644	1.160
.950	1.699	1.170
.953	1.754	1.180
.965	1.809	1.190

MACH (1) = 1.555 BETAT (3) = -3.050

Y/BA	X/CA	CP
.000	.299	.427
.050	.364	.534
.081	.427	.673
.086	.482	.780
.094	.534	.867
.150	.599	.920
.177	.654	.952
.229	.709	.980
.246	.764	1.000
.250	.819	1.010
.362	.874	1.020
.400	.929	1.030
.402	.984	1.040
.497	1.039	1.050
.530	1.094	1.060
.565	1.149	1.070
.600	1.204	1.080
.650	1.259	1.090
.700	1.314	1.100
.725	1.369	1.110
.750	1.424	1.120
.760	1.479	1.130
.775	1.534	1.140
.808	1.589	1.150
.834	1.644	1.160
.850	1.699	1.170
.857	1.754	1.180
.865	1.809	1.190

DATE 21 SEP 73

TABLATED PRESSURE DATA - 1A98

(R80L05)

AMES 97-707 1A9 02A + S3 + T9 LOWER WING

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = 5.050

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.808							
.834	-.0980						
.850							
.857							
.865	-.2240						
.900	-.2790						
.905							
.950							
.953							
.965	-.2090						

MACH (1) = 1.555 BETAT (5) = 7.070

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.050							
.081							
.166							
.184							
.190							
.177							
.229	.0010						
.246							
.250							
.362	.1290						
.410							
.412							
.497	.0900						
.550							
.565							
.600							
.650							
.710	-.0240						
.725							
.750							
.760							
.775							
.818							
.834							
.850	-.1560						
.857							
.865	-.2650						
.910	-.2220						
.915							
.950							
.953							

.050							
.081							
.166							
.184							
.190							
.177							
.229							
.246							
.250							
.362							
.410							
.412							
.497							
.550							
.565							
.600							
.650							
.710							
.725							
.750							
.760							
.775							
.818							
.834							
.850							
.857							
.865							
.910							
.915							
.950							
.953							

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

AMES 97-707 IAS OCA + S3 + T9 LOWER WING

(RBOLUS)

SECTION (1) LOWER WING

DEPENDENT VARIABLE C/F

MACH (1) = 1.555 BETAT (5) = 7.070

Y/BW .299 .364 .427 .534 .673 .780 .887

X/CW .965 -.2170

MACH (1) = 1.555 BETAT (6) = 9.080

Y/BW .259 .364 .427 .534 .673 .780 .887

X/CW .1000 -.2730 -.1720 .0770 .4300 .4460 .4330

.090 .186 -.0570 -.0550 .1350 .1470 .1130

.181 .184 .190 .177 .1300 .1010 .2220 .1340 .1070

.229 -.0570 .1170 .0210 .1850 .1960 .1020

.246 .290 .362 -.0180 .1470 .1780 .1640

.410 .412 .497 .0120 .1810 .1380

.531 .565 .621 .690 .711 -.0330 -.1690

.725 .790 .780 .775 .808 .834 -.1360

.891 .857 .865 -.1900 .1960 -.1530 -.1880

.911 -.1810 .2710 .2570

.915 .951 .953 .965 -.2040

-.2960 -.2410 -.2370

-.2930

-.1040

-.1770

.1220

-.1960

-.1940

-.1320

-.1020

-.1250

-.1320

-.1320

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MACH (2) = 2.000 BETAT (1) = -8.280

Y/BW .299 .364 .427 .534 .673 .780 .887

X/CW .144 .150 .181 .186 .186 .186 .186

.181 .181 .181 .181 .181 .181 .181

.181 .181 .181 .181 .181 .181 .181

.181 .181 .181 .181 .181 .181 .181

.181 .181 .181 .181 .181 .181 .181

.181 .181 .181 .181 .181 .181 .181

.181 .181 .181 .181 .181 .181 .181

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.181 .181 .181 .181 .181 .181 .181

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.181 .181 .181 .181 .181 .181 .181

.181 .181 .181 .181 .181 .181 .181

.181 .181 .181 .181 .181 .181 .181

.181 .181 .181 .181 .181 .181 .181

.181 .181 .181 .181 .181 .181 .181

.181 .181 .181 .181 .181 .181 .181

.181 .181 .181 .181 .181 .181 .181

.181 .181 .181 .181 .181 .181 .181

.181 .181 .181 .181 .181 .181 .181

.181 .181 .181 .181 .181 .181 .181

AMES 97-707 1A9 ORA + S3 + T9 LOWER WING

SECTION (1) LOWER WING

DEPENDENT VARIABLE (P

(RBOLUS)

MACH (2) = 2.1400 BETAT (2) = -6.25U

Y/BW X/CW	.299	.364	.427	.534	.673	.78U	.887
.59U							
.565			.209U				
.67U				.267U	.156U		
.65U						.128U	.181U
.72U	.175U			.181U			
.725							
.75U						.064U	.062U
.76U			.135U				
.775			.176U	.115U	.147U		
.8U8							
.834	.049U			.063U	.088U	.075U	
.85U			.044U				
.857							
.865	.084U						
.94U	.044U			.044U			-.034U
.945			.011U				
.95U				-.012U	-.014U	.036U	
.953			-.046U				
.965	-.115U						

MACH (2) = 2.0000 BETAT (3) = -4.14U

Y/BW X/CW	.299	.364	.427	.534	.673	.78U	.887
.14U							
.05U	-.039U	.010U	.358U	.876U	.782U	.813U	.827U
.081			.156U	.133U	.059U	.076U	.067U
.086	.117U						
.194							
.15U			.147U	.122U	.164U	.155U	.165U
.177	.061U						
.229		.089U					
.246							
.25U				.114U	.139U	.176U	.194U
.362	.037U			.173U	.292U		.214U
.41U			.203U				
.412							
.497	.028U			.221U	.137U		
.55U			.174U				
.565							.153U
.65U						.089U	
.65U				.083U	.136U		
.74U	.136U						
.725							
.75U			.056U			.032U	.035U
.76U							
.775				.096U	.123U		

DATE 21 SEP 73

TABLATED PRESSURE DATA - 1A98
 ANES 97-787 1A9 02A + S3 + T9 LOWER MINE

(RBOLOS)

SECTION (1) LOWER MINE

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.140

	Y/BM	.299	.364	.427	.534	.673	.780	.887
	X/CM			.0800				
	.808							
	.834	.0380			.0130	.0730	.0370	
	.850			.0000				
	.857							
	.865	.0770			.0320			-.0560
	.920	-.0140						
	.905			-.0130				
	.950				-.0230	-.0390	.0250	
	.953			-.0570				
	.965	-.1280						

MACH (2) = 2.000 BETAT (4) = 3.940

	Y/BM	.299	.364	.427	.534	.673	.780	.887
	X/CM			.0960				
	.000	-.1280	-.1280	.0960	.5620	.4980	.5390	.9330
	.190				.0910	.0520	.0570	.0480
	.161		-.0390	.0920				
	.186	-.0400						
	.194				.0520	.1160	.1110	.1040
	.150			.0700				
	.177	-.0240						
	.229		.0470					
	.246				.0590	.0930	.1230	.1510
	.250							
	.362	.0120			.0640	.2350		.2120
	.414			.0240				
	.412							
	.497	.0610			.0480	.0480		.1190
	.550			.0130				
	.565							
	.614						.0620	
	.650							
	.714	-.0560			-.0120			
	.725							
	.750				-.0350			
	.760			-.0400				
	.775			-.0360				
	.818				-.0340	-.0550		
	.834	-.0340						
	.850			.0140				
	.857							
	.865	-.0760						
	.924	-.1290			-.1220			-.0480
	.915			-.1230				
	.950				-.1430	-.1230	-.0930	
	.953			-.1630				

(RBCLOS)

AMES 97-757 1A9 02A + S3 + T9 LOWER WING

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (4) = 3.940

Y/BW .299 .364 .427 .534 .673 .780 .887

X/CW

.965

-.1590

MACH (2) = 2.000 BETAT (5) = 5.980

Y/BW .299 .364 .427 .534 .673 .780 .887

X/CW

.1200

-.1640

.1440

.4110

.4990

.5080

.1690

.1640

.1570

.1670

.1120

.1140

.1170

.181

-.1680

.186

-.1690

.194

.177

.1570

.229

-.10360

.246

.12180

.250

.362

-.1230

.400

.1640

.402

-.10170

.497

.1420

.550

-.10170

.565

-.10570

.600

.0180

.650

-.10470

.700

-.10300

.750

.0120

.760

-.10290

.775

-.10250

.800

.0220

.834

-.10800

.850

-.10710

.857

-.10690

.865

-.10600

.900

-.10590

.905

-.10450

.950

-.10450

.953

-.10450

.965

-.10450

MACH (2) = 2.000 BETAT (6) = 8.020

Y/BW .299 .364 .427 .534 .673 .780 .887

X/CW

.1200

-.1830

.1220

.3640

.4260

.5530

.5710

.1430

.1870

.1310

.1260

.1430

.1870

.1310

.1260

.1430

.1870

.1310

.1260

.1430

.1870

.1310

.1260

AMES 97-707 1A9 02A + S3 + T9 LOWER MING

(RBOLODS)

SECTION (1) LOWER MING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (6) = 0.120

Y/BW X/CM	.299	.364	.427	.534	.673	.760	.887
.150							
.177			.0410				
.229	-.0670			.0500	.2570	.2040	.2490
.246		-.0390					
.290				.1140	.1990	.2290	.2310
.362	-.0660						
.410				.1030	.1820		.2200
.412			-.0520				
.497	.0040						
.550				.0750	.0560		
.565			-.0080				
.600							.0710
.680					.0280		
.700	-.0310			.0340	.0720		
.725							
.750						.0180	-.0330
.760			-.0260				
.775				-.0190	-.0410		
.810			-.0760				
.834	-.0940						
.850				-.0920	-.0540	-.0300	
.857			.0220				
.865	-.1300						
.910	-.1410						
.915			-.1650				-.0850
.950				-.1630	-.1210	-.0940	
.953			-.1960				
.965	-.1520						

DATE 21 SEP 73

TABLULATED PRESSURE DATA - 1A98

(RBOLU6) (24 MAY 73)

AMES 97-707 1A9 OCA + S3 + T9 LOWER WING

REFERENCE DATA

SREF = 2.4210 SQ.FT. XGRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YGRP = .0000 INCHES
 BREF = 39.8490 INCHES ZGRP = .0000 INCHES
 SCALE = .0300 SCALE

PARAMETRIC DATA

ALPHAT = .0000 ORBINC = .9000
 RUDDER = .0000 ELEVON = .5000
 RUDFLR = .5000

DEPENDENT VARIABLE CP

SECTION (1) LOWER WING	Y/BW	X/CW	CP
MACH (1) = 1.955 BETAT (1) = -7.100			
	.000	.0910	.534
	.050	.1160	.427
	.081		.673
	.086	.0900	.780
	.094		.827
	.150		.832
	.177	.1100	.820
	.229		.820
	.246	.1120	.820
	.250		.820
	.362	.1460	.820
	.400		.820
	.412	.2910	.820
	.497		.820
	.550		.820
	.565	.2110	.820
	.600		.820
	.650		.820
	.700	.2170	.820
	.725		.820
	.750	.1680	.820
	.760		.820
	.775	.1640	.820
	.800		.820
	.834	.1660	.820
	.850		.820
	.857	.1660	.820
	.865		.820
	.900	.1860	.820
	.905		.820
	.950		.820
	.953		.820
	.965	.2360	.820
MACH (1) = 1.955 BETAT (2) = -5.000			
	.000	.364	.534
	.050	.427	.427
	.081		.673
	.086	.364	.780
	.094		.827
	.150	.3750	.832
	.177		.820
	.229	.1470	.820
	.246		.820
	.250	.3750	.820
	.362		.820
	.400	.1140	.820
	.412		.820
	.497	.1620	.820
	.550		.820
	.565	.1620	.820
	.600		.820
	.650		.820
	.700	.2110	.820
	.725		.820
	.750	.1680	.820
	.760		.820
	.775	.1640	.820
	.800		.820
	.834	.1660	.820
	.850		.820
	.857	.1660	.820
	.865		.820
	.900	.1860	.820
	.905		.820
	.950		.820
	.953		.820
	.965	.2360	.820

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TABLATED PRESSURE DATA - 1A98
 AMES 97-707 IAS OCA + S3 + T9 LOWER WING

(RBL:6)

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (2) = -5.160

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.150				.1620	.2410	.2920	.1180
.177			.0770				
.229	.0070						
.246		.0910					
.240				.1300	.1180	.1580	.1030
.362	.0110			.2680	.3970		.3400
.411			.2390				
.412				.2210	.2120		.1640
.497	.2810		.2100				
.550							
.565							
.610						.1140	
.650				.0560			
.700	.2180					.0150	-.0010
.725							
.750							
.760			.0280				
.775				-.0240	-.0490		
.818			-.0310				
.834	.0340						
.890							
.857			.0220				
.865	-.1220						-.1260
.911	-.2130						
.915			-.1810				
.950							
.953			-.2570				
.965	-.3320						

MACH (3) = 1.555 BETAT (3) = -3.060

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.160				.7220	.6860	.7320	.7370
.190	-.0730	-.0140	.2910	-.0140	-.0440	-.0390	-.0620
.181			.0710				
.186		.1820					
.184	-.0320						
.150				.1280	.2280	.1730	.1820
.177			.0330				
.229	.0240						
.246		.0550					
.240				.1310	.1180	.1390	.1560
.362	-.0260			.2130	.2840		.3140
.411							
.412							
.497			.1060				
.550							
.565							
.610							
.650							
.700							
.725							
.750							
.760							
.775							
.818							
.834							
.890							
.857							
.865							
.911							
.915							
.950							
.953							
.965							

AMES 97-7J7 1A9 OCA + S3 + T9 LOWER WING (REBOL16)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -3.060

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.550							
.565			.1880	.2050	.1950		.1540
.620						.0990	
.650					.0680		
.700	.1080			.0140			
.725							
.750							
.760							
.775							
.810							
.834							
.850							
.857							
.865							
.900							
.915							
.950							
.953							
.965							

MACH (3) = 1.555 BETAT (4) = 5.050

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.160							
.170							
.180							
.186							
.194							
.195							
.177							
.229							
.246							
.250							
.362							
.400							
.402							
.497							
.550							
.565							
.600							
.650							
.700							
.725							
.750							
.760							
.775							

DATE 21 SEP 73

TABLATED PRESSURE DATA - IASB
 AMES 97-707 IAS OCA + S3 + T9 LOWER MINE

(RBL06)

SECTION (1) LOWER MINE

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = 5.050

Y/BA X/CM	.299	.364	.427	.534	.673	.780	.887
.808			-.1350				
.834	-.1200						
.850				-.1910	-.1710	-.1670	
.857			.1420				
.865	-.2410			-.2320			-.2020
.910	-.2880		-.2700				
.925				-.2560	-.2360	-.2340	
.950			-.3280				
.953							
.965	-.2260						

MACH (1) = 1.555 BETAT (5) = 7.060

Y/BA X/CM	.299	.364	.427	.534	.673	.780	.887
.140							
.150	-.2580	-.1860	.2510	.5460	.4560	.4440	.4580
.161			.1870	.1020	.0220	.1670	.1510
.166		-.1250					
.194	-.1090			.0940	.2580	.1220	.1180
.190			.1380				
.177							
.229	-.0550						
.246		.1470		.1170	.0710	.0620	.1280
.250							
.362	.0940			.1230	.1670		.10920
.410							
.412							
.497	.0710			.1440	-.0260		
.550							
.565			-.0140				-.1270
.620						-.1420	
.650							
.700	-.0740			-.1340	-.1260		
.725							
.750							
.760							
.775			-.1340				
.818				-.1740	-.1780		
.834	-.2010						
.850							
.857			.1740				
.865	-.2920			-.2120	-.2120	-.1920	
.910	-.2160						
.915			-.2970	-.2410			-.2170
.930				-.2790	-.2450	-.2560	
.933			-.3470				

TABLATED PRESSURE DATA - 1A98

DATE 21 SEP 73

AVES 97-707 1A9 CEA + S3 + 19 LOWER WING

(RBDL06)

SECTION (1) LOWER WING		DEPENDENT VARIABLE CP	
MACH (2) = 2.000	BETAT (1) = -6.290	Y/BW	X/CW
.190	.299	.427	.534
.177	.364	.427	.673
.229	.1210	.1820	.780
.246	.1440	.1390	.887
.250	.1060	.1570	.1450
.362	.2470	.3260	.1460
.400	.2180	.1580	
.412	.1670	.1180	.1690
.497	.1860	.0480	.1550
.550	.1340	.1410	
.565	.1660	.1670	
.600	.1150	.1640	.1920
.650	.1220		
.725	.1080		
.750	.0110		
.760			
.775			
.818			
.834			
.850			
.857			
.865			
.910			
.915			
.950			
.953			
.965			
MACH (2) = 2.000	BETAT (2) = -6.290	Y/BW	X/CW
.140	.299	.427	.534
.150	.364	.427	.673
.160	.1210	.1820	.780
.186	.1440	.1390	.887
.194	.1060	.1570	.1450
.195	.2470	.3260	.1460
.177	.2180	.1580	
.229	.1670	.1180	.1690
.246	.1860	.0480	.1550
.250	.1340	.1410	
.362	.1660	.1670	
.400	.1150	.1640	.1920
.412	.1220		
.497	.1080		
.550	.0110		
.565			
.600			
.650			
.725			
.750			
.760			
.775			
.818			
.834			
.850			
.857			
.865			
.910			
.915			
.950			
.953			
.965			

DATE 21 SEP 73

TABLULATED PRESSURE DATA - 1A98

(RBOLU6)

AMES 97-707 IAS OEA + S3 + T9 LOWER WING

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (2) = -6.250	Y/BW X/CM	.299	.364	.427	.534	.673	.780	.887
		.530				.1890	.1160		
		.565			.1730			.1360	
		.600						.0680	
		.650							
		.700	.1440			.1840	.1210		
		.725						.0200	.0270
		.750							
		.780			.0640	.0820	.0580		
		.775			.0750				
		.808							
		.834	.0420			.0200	.0530	-.0140	
		.850			.0000				
		.857							
		.865	.0190			.0320			-.0610
		.920	.0090		.0010				
		.905							
		.950				-.0210	-.0300	-.0400	
		.953			-.0680				
		.965	-.1280						

MACH (2) = 2.000 BETAT (3) = -3.330

Y/BW X/CM	.299	.364	.427	.534	.673	.780	.887
.620							
.650	-.0730	-.0330	.2160	.5660	.6140	.6520	.6880
.680			.0490	.0330	-.0560	-.0460	-.0470
.710		.0720					
.740			.0580	.0310	.0260	.0220	.0130
.770		.0520		.0150	.0200	.0410	.0410
.800				.1190	.2080		.0740
.830			.0320	.0420	.0890		
.860							.0620
.890				-.0460	.0110		.0520
.920	-.0360						
.950			-.0310			-.0460	.0490
.960				-.0480	-.0090		
.975							
.980							
.985							
.990							
.995							
1.000							

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98 (RBOL06)

AMES 97-707 1A9 OEA + S3 + T9 LOWER WING

DEPENDENT VARIABLE CP

SECTION (1) LOWER WING

MACH (2) = 2.000 BETAT (3) = -.130

Y/BM X/CM	.299	.364	.427	.534	.673	.780	.887
.808		-.0420					
.834	-.0760			-.0440	-.0480	-.0560	
.850		.0420					
.857				-.0750			-.1060
.865	-.1050						
.901	-.0990						
.915		-.0960		-.1070	-.1010	-.0750	
.950			-.1350				
.953							
.965	-.1050						

MACH (2) = 2.000 BETAT (4) = 3.950

Y/BM X/CM	.299	.364	.427	.534	.673	.780	.887
.060							
.090							
.101		-.0580					
.106							
.104	-.0520			.0250	.0640	.1280	.1120
.150							
.177			.0360				
.229	-.0470						
.246		.0310					
.250				.1410	.1420	.0770	.0510
.362	-.0340			.0330	.1710		.1830
.400			-.1020				
.412							
.497	.0360			-.0310	.1410		
.550			-.0570				.1690
.565							
.600						.0320	
.650					-.0380		
.710	-.1090			-.0510		-.1090	-.1010
.725							
.750			-.0680				
.760				-.0510	-.0730		
.775			-.1450				
.800							
.834	-.1660			-.1020	-.0720	-.1010	
.850			.1440				
.857							
.865	-.1020			-.1250			-.1140
.900	-.1290						
.915		-.1370		-.1530	-.1300	-.1170	
.950			-.1720				
.953							

AMES 97-707 IA9 CEA + S3 + T9 LOWER WING (RBOL:6)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (4) = 3.950
 Y/BW .299 .364 .427 .534 .673 .780 .887
 X/CW .965 -.1690

MACH (2) = 2.000 BETAT (5) = 5.980
 Y/BW .299 .364 .427 .534 .673 .780 .887
 X/CW .965 -.1690

.1670 -.1470 -.1450 .0740 .4120 .3960 .4320 .4430
 .090 .181 .186 .194 -.0780 -.1030 -.0550 -.0530 -.0580

.150 .177 .229 -.1630 -.0740 .0310 .0620 .0690 .0380

.246 .250 .362 -.0900 .1640 .1070 .1330 .1280

.410 .412 .497 .0150 .1050 .1440 .1680

.550 .565 .610 .650 .710 .725 .730 .760 .775 .818 .834 .857 .865

.840 .915 .953 .965 -.1180 -.0730 -.0720 .1420 .1470 .1490 .1480 .1440 .1440

.1420 .1470 .1490 .1480 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440

.1420 .1470 .1490 .1480 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440

.1420 .1470 .1490 .1480 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440

.1420 .1470 .1490 .1480 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440

.1420 .1470 .1490 .1480 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440

.1420 .1470 .1490 .1480 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440

.1420 .1470 .1490 .1480 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440

.1420 .1470 .1490 .1480 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440

.1420 .1470 .1490 .1480 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440

.1420 .1470 .1490 .1480 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440

.1420 .1470 .1490 .1480 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440

.1420 .1470 .1490 .1480 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440

.1420 .1470 .1490 .1480 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440

.1420 .1470 .1490 .1480 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440 .1440

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 29.5300 INCHES
LREF = 39.8490 INCHES YMRP = .0000 INCHES
BREF = 39.8490 INCHES ZMRP = .0000 INCHES
SCALE = .03000 SCALE

PARAMETRIC DATA

ALPHAT = -2.000 ORBINC = .500
RUDDER = .000 ELEVON = .000
RUDFLR = .000

SECTION (1) LOWER WING

MACH (1) = 1.555	BETAT (1) = -7.110	DEPENDENT VARIABLE CP	
		Y/BW	X/CW
		.1100	.299
		.0500	.364
		.0800	.427
		.1486	.534
		.1894	.673
		.1500	.780
		.177	.887
		.229	.0230
		.246	.0980
		.250	.1070
		.362	.3830
		.400	.0888
		.412	.0400
		.497	.1020
		.550	.1820
		.565	.1860
		.610	.2300
		.650	.2700
		.740	.3810
		.725	.2270
		.750	.2300
		.775	.2200
		.818	.2000
		.834	.1990
		.850	.1990
		.857	.1990
		.865	.1980
		.940	.1980
		.915	.1990
		.950	.1990
		.953	.1990
		.965	.1990
			.1070
			.1630
			.0160
			.0160
			.1140
			.1720
			.067
			.7790
			-.1890
			.0590
			.0220
			.0590
			.0220

SECTION (2) LOWER WING

MACH (1) = 1.555	BETAT (2) = -5.090	DEPENDENT VARIABLE CP	
		Y/BW	X/CW
		.1100	.299
		.0500	.364
		.0800	.427
		.1486	.534
		.1894	.673
		.1500	.780
		.177	.887
		.229	.0230
		.246	.0980
		.250	.1070
		.362	.3830
		.400	.0888
		.412	.0400
		.497	.1020
		.550	.1820
		.565	.1860
		.610	.2300
		.650	.2700
		.740	.3810
		.725	.2270
		.750	.2300
		.775	.2200
		.818	.2000
		.834	.1990
		.850	.1990
		.857	.1990
		.865	.1980
		.940	.1980
		.915	.1990
		.950	.1990
		.953	.1990
		.965	.1990
			.1070
			.1630
			.0160
			.0160
			.1140
			.1720
			.067
			.7790
			-.1890
			.0590
			.0220
			.0590
			.0220

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A98

AMES 97-707 1A9 OCA + S3 + T9 LOWER WING

(RBDL07)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -3.070

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.550			.1110				
.565				.1580	.1490		.1110
.610						.1680	
.650							
.710	.0470						
.725							
.750							
.765							
.775							
.810							
.834							
.850							
.857							
.865							
.910							
.915							
.950							
.953							
.965							

MACH (3) = 1.555 BETAT (4) = 5.140

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.110							
.150							
.181							
.186							
.194							
.190							
.177							
.229							
.246							
.250							
.362							
.410							
.412							
.497							
.550							
.565							
.610							
.650							
.710							
.725							
.750							
.760							
.775							

AWES 97-707 1A9 ORA + S3 + T9 LOWER WING (RECL:17)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CF

MACH (1) = 1.555 BETAT (4) = 5.0465

Y/BW X/CM	.299	.364	.427	.534	.673	.780	.887
.818							
.834	-.1670						
.850							
.857							
.865	-.2660						
.914	-.2510						
.915							
.950							
.953							
.965	-.2314						

MACH (1) = 1.555 BETAT (5) = 7.0680

Y/BW X/CM	.299	.364	.427	.534	.673	.780	.887
.144	-.2170	-.1170	.2250	.5520	.4690	.4420	.4630
.150				.0720	-.1150	-.1890	-.1720
.161							
.186							
.194	-.1240						
.194							
.177							
.229	-.1140						
.246							
.251							
.362	.0590						
.414							
.412							
.497	.1240						
.551							
.614							
.651							
.714	-.1310						
.725							
.750							
.760							
.775							
.818							
.834	-.2260						
.850							
.857							
.865	-.2080						
.914	-.2260						
.915							
.950							
.953							

AMES 97-707 1A9 CGA + S3 + T9 LOWER WING

(RBCLD7)

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (1) = -8.310	Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
		.150				.1290	.1160	.0660	.0620
		.177		.1640					
		.229	.1240						
		.246		.1540					
		.290				.1230	.1110	.1220	.1170
		.362	.1170			.2110	.2870		.1690
		.400			.2480				
		.452				.2510	.1340		
		.497	.0720		.2130				.1220
		.550						.1680	
		.600				.1590			
		.650	.2000				.1410		
		.700						.1250	.0280
		.750			.1310		.1160	.1210	
		.760			.1360				
		.775							
		.800							
		.834	.0660			.1650	.0590	.0570	
		.850			.1440				
		.857							
		.865	.0980			.1420			-.0560
		.900	-.1410		-.1450				
		.905				-.1480	-.0220	.1460	
		.950			-.0590				
		.953							
		.965	-.1220						

MACH (2) = 2.000 BETAT (2) = -6.260

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.170							
.190	.0480	.1310	.4210	.9020	.8390	.8460	.8960
.181			.1530	.0790	-.0150	-.0430	-.0120
.186		.1120					
.194	.1670						
.190				.0970	.0740	.0480	.0440
.177			.1320				
.229	.0990						
.246		.1370					
.290				.0790	.0720	.0800	.0790
.362	.1010			.1610	.2320		.1280
.400			.1910				
.452							
.497	.0420						

AWES 97-707 IAS ORA + S3 + T9 LOWER WING

(RESOLUTION)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.260

Y/BW X/CW :	.299	.364	.427	.534	.673	.780	.887
.550			.1640	.1910	.0920		
.565						.0800	
.600							
.650	.1540			.0920		.0490	
.700							
.725				.0600			
.750			.0420				
.760			.0670	.0490	.0350		
.775							
.818							
.834	.0330			.0310	.0330		
.850			.0220				
.865	-.0400						
.910	-.0640						
.915							
.950							
.953							
.965	-.1390						

MACH (2) = 2.000 BETAT (3) = -4.230

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.020							
.050	-.0170	.0830	.3470	.8270		.7770	.8180
.080			.1110	.0370			
.086		.0660					
.094	.0990						
.150							
.177							
.229	.0670		.0920	.0550	.0480	.0120	.011
.246		.0900					
.250							
.362	.0690			.0420	.0390	.0390	.0320
.410							
.412			.1490	.1330	.0950		.0800
.497	.0490						
.550							
.565			.1160	.0980	.0680		
.610							
.650							
.710	.0400						
.725				.0620	.0380		
.750							
.760							
.775							

AVES 97-757 1A9 OEA + S3 + T9 LOWER MING

(R03L577)

SECTION (1) LOWER MING

DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (3) = -4.230

Y/BN X/CM	.299	.364	.427	.534	.673	.765	.887
.808							
.804	-.0100		-.0520				
.800				-.0170	-.0470	-.0680	
.857							
.865	-.0630						
.910	-.0310			-.0330			-.1090
.915			-.0280				
.950			-.0940	-.0660	-.0770	-.0640	
.953							
.965	-.1540						

MACH (2) = 2.000 BETAT (4) = 3.940

Y/BN X/CM	.299	.364	.427	.534	.673	.765	.887
.160	-.0860	-.0730	.1450	.4870	.4220	.4090	.4750
.150				-.0450	-.1300	-.1450	-.1520
.181		-.0510	.0230				
.186							
.194	-.0440						
.191				-.0360	-.0640	-.0880	-.1120
.177			.0120				
.229	-.0400	.0220					
.246				-.0380	-.0540	-.0680	-.0810
.290							
.362	-.0170			.0120	.0970		.0110
.410			-.0310				
.412							
.497	.0140			-.0680	-.0290		
.550							
.565			-.1030				
.611							
.651							
.711	-.1220			-.0920	-.0750	-.0290	.0790
.725							
.790			-.1370			-.0650	-.0570
.761				-.0160	-.1190		
.775			-.1280				
.818				-.1190	-.1160	-.1230	
.834	-.1310						
.850			.0260				
.857							
.865	-.1240						
.911	-.1330			-.1480			-.1120
.915			-.1430				
.950				-.1050	-.1470	-.1540	
.953			-.1820				

ANES 97-717 1A9 OEA + S3 + T9 LOWER WING

SECTION (1) LOWER WING

MACH (2) = 2.000 BETAT (6) = 8.000

DEPENDENT VARIABLE CF

(RBLU77)

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.150							
.177							
.229							
.246							
.250							
.362							
.400							
.402							
.497							
.550							
.565							
.600							
.650							
.700							
.725							
.750							
.760							
.775							
.808							
.834							
.850							
.857							
.865							
.900							
.905							
.950							
.953							
.965							

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.0490 INCHES YMRP = .0000 INCHES
 BREF = 39.0490 INCHES ZMRP = .0000 INCHES
 SCALE = .0310 SCALE

SECTION (1) LOWER WING

MACH (1) = 1.555 BETAT (1) = -8.130

	DEPENDENT VARIABLE CP		PARAMETRIC DATA	
	Y/BW	X/CW	ALPHAT =	ORGBINC =
	.000	.299	-4.000	.500
	.050	.0890	.000	.000
	.101	.1230	.000	.000
	.152	.1690	.000	.000
	.203	.2280	.000	.000
	.254	.2550	.000	.000
	.305	.2750	.000	.000
	.356	.2950	.000	.000
	.407	.3150	.000	.000
	.458	.3350	.000	.000
	.509	.3550	.000	.000
	.560	.3750	.000	.000
	.611	.3950	.000	.000
	.662	.4150	.000	.000
	.713	.4350	.000	.000
	.764	.4550	.000	.000
	.815	.4750	.000	.000
	.866	.4950	.000	.000
	.917	.5150	.000	.000
	.968	.5350	.000	.000
	.100	.5550	.000	.000
	.150	.5750	.000	.000
	.200	.5950	.000	.000
	.250	.6150	.000	.000
	.300	.6350	.000	.000
	.350	.6550	.000	.000
	.400	.6750	.000	.000
	.450	.6950	.000	.000
	.500	.7150	.000	.000
	.550	.7350	.000	.000
	.600	.7550	.000	.000
	.650	.7750	.000	.000
	.700	.7950	.000	.000
	.750	.8150	.000	.000
	.800	.8350	.000	.000
	.850	.8550	.000	.000
	.900	.8750	.000	.000
	.950	.8950	.000	.000
	.100	.9150	.000	.000
	.150	.9350	.000	.000
	.200	.9550	.000	.000

MACH (2) = 1.555 BETAT (2) = -6.150

	Y/BW	X/CW	RUDR =	ELEVON =
	.299	.364	.534	.780
	.0890	.1230	.8070	.7880
	.1230	.1690	-.0810	-.1710
	.1690	.2280	.1650	-.1040
	.2280	.2550	.0710	.0430
	.2550	.2750	.2240	.2880
	.2750	.2950	.2140	.1800
	.2950	.3150	.1280	.0430
	.3150	.3350	-.0360	-.0710
	.3350	.3550	-.1060	-.1090
	.3550	.3750	-.1800	-.1170
	.3750	.3950	-.2110	-.2050
	.3950	.4150	.534	.780
	.4150	.4350	.7460	.7100
	.4350	.4550	-.1400	-.1770
	.4550	.4750	.3460	.7310
	.4750	.4950	-.2760	-.2360
	.4950	.5150	.0350	-.2580
	.5150	.5350	.0340	.0330

DATE 21 SEP 73 TABULATED PRESSURE DATA - IA98

ANES 97-707 IA9 CGA + S3 + T9 LOWER WING

(REBOLUS)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CF

MACH (1) = 1.555 BETAT (2) = -6.150

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.150							
.177			.0230				
.229	.0300						
.246		.0370					
.250							
.362	.0075						
.410							
.412			.1460				
.497	.2450						
.550			.1200				
.565							
.610							.1210
.650						.1970	
.710	.1680						
.725							
.750							
.760							
.775							
.818							
.834	-.1000						
.850							
.857							
.865	-.1570						
.910	-.2310						
.915							
.950							
.953							
.965	-.3500						

MACH (1) = 1.555 BETAT (3) = -3.070

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.140							
.150							
.181							
.186							
.194	-.0250						
.150							
.177							
.229	-.0000						
.246		.1670					
.250							
.362	-.0520						
.410							
.412							
.497							

AMES 97-707 IA9 OEA + S3 + T9 LOWER WING

(REDLWR)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = 5.000

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.838			-.1790				
.834	-.1740			-.2160	-.2230	-.2170	
.850			.0100				
.857				-.2480			-.2510
.865	-.2740						
.900	-.2750		-.3110				
.905				-.2960	-.2740	-.2840	
.950			-.3620				
.953							
.965	-.2300						

MACH (1) = 1.555 BETAT (5) = 7.000

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.140							
.150	-.1980	-.0780	.1730	.4850	.4560	.4190	.4390
.181			.0670	-.0960	-.1810	-.2720	-.2820
.186		-.0520					
.194	-.0930						
.195							
.177			.1020				
.229	-.1210			.0100	.0180	-.0680	-.2220
.245		.0610					
.250				-.0940	-.0290	-.0380	-.0740
.362	-.0310						
.400				-.0280	.0170		.0450
.402			-.0360				
.497	-.0260			-.0760	-.0130		
.550			-.0920				
.565							
.600							
.650							
.700	-.1640					-.1140	-.0800
.725				-.1810	-.1630		
.750							
.760			-.1940			-.1650	-.1850
.775				-.2340	-.2240		
.800			-.2280				
.834	-.2370						
.850				-.2940	-.2620	-.2290	
.857			.0100				
.865	-.2810			-.2960			-.2010
.900	-.2940						
.905			-.3280				
.950				-.3180	-.3140	-.2950	
.953			-.3600				

DATE 21 SEP 75 TABULATED PRESSURE DATA - 1A98 (RBDL56)

AMES 97-707 IAS 02A + S3 + T9 LOWER WING

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 2.000 BETAT (2) = -6.270

Y/BW X/CW	.299	.364	.427	.534	.673	.785	.887
.550			.1470				
.565				.1630	.0745		.0095
.600						.5400	
.650					.1680		
.700	.1270						
.725							
.750							
.765			.0270				
.775				.0675	.0160		
.800							
.834	.0240						
.850				.0040			
.87			.0000				
.865							
.900							
.905							
.950							
.953							
.965							

MACH (2) = 2.000 BETAT (3) = -4.250

Y/BW X/CW	.299	.364	.427	.534	.673	.785	.887
.550							
.565							
.600							
.650							
.700							
.725							
.750							
.765							
.775							
.800							
.834							
.850							
.87							
.865							
.900							
.905							
.950							
.953							
.965							

DATE 21 SEP 73

TABLATED PRESSURE DATA - 1A98
 AMES 97-717 IAS OEA + S3 + T9 LOWER WING

(REBULG)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CF

MACH (2) = 2.0000 BETAT (3) = -4.2300

Y/BW X/CW	.299	.364	.427	.534	.673	.785	.887
.858			-.0630				
.834	-.0190			-.0570	-.0670	-.1130	
.895		.0000					
.857	-.0700						-.1220
.865	-.0880			-.0660			
.920			-.0370				
.945				-.0880	-.1070	-.1160	
.950			-.0980				
.953							
.965	-.1570						

MACH (2) = 2.0000 BETAT (4) = 3.9200

Y/BW X/CW	.299	.364	.427	.534	.673	.785	.887
.850							
.881		-.0290					
.846	-.0240						
.894			.0660	.4900	.4370	.4160	.4680
.850				-.1100	-.1860	-.1810	-.1810
.877			.0180				
.829	-.0230						
.846		.0240					
.862	-.0120						
.840							
.812			-.0280				
.897	-.0100						
.850				-.1100	-.1620		
.865							
.810							
.850							
.810	-.1290			-.1430	-.1290		
.825							
.850							
.860			-.1490				
.875							
.848			-.1690				
.834	-.1560						
.850							
.857			.0000				
.865	-.1470						
.840	-.1670						
.815			-.1800				
.850				-.2160	-.1930	-.1850	
.853							

-.1850

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

AMES 97-757 1A9 CEA + S3 + T9 LOWER WING

(REGULAR)

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 2.500	BETAT (4) = 3.920	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CM							
		.965	-.2580						
MACH (2) = 2.000	BETAT (5) = 5.960	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CM							
		.523	-.5090	-.0030	.1030	.3970	.3710	.3720	.4120
		.590			-.5910	-.1750	-.2580	-.2570	
		.581			.5690				
		.586	-.0420						
		.594	-.5570						
		.190							
		.177							
		.229	-.5480		-.5230				
		.246							
		.250	-.5550						
		.362	-.5490						
		.400							
		.452			-.5720				
		.497	-.5220						
		.550							
		.565			-.5350				
		.610							
		.650							
		.710	-.5610						
		.725							
		.750							
		.760			-.5730				
		.775							
		.808			-.5760				
		.834	-.5460						
		.850							
		.857							
		.865	-.5830						
		.910	-.5980						
		.915			-.5750				
		.950							
		.953			-.5890				
		.965	-.5290						
MACH (2) = 2.000	BETAT (6) = 8.510	Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CM							
		.523	-.5110	-.1110	.0730	.3280	.2980	.3760	.4950
		.590				-.5930	-.1820	-.1840	-.2540
		.581							
		.586	-.5650		-.5460				
		.594							

TABULATED PRESSURE DATA - IASB

DATE 21 SEP 73

AMES 97-757 IAS O2A + S3 + T9 LOWER WING

(RNDLS6)

SECTION (1) LOWER WING	DEPENDENT VARIABLE CP						
MACH (2) = 2.000	BETA (6) = 0.000	% X/CM					
.190	.299	.364	.427	.534	.673	.765	.887
.177							
.229							
.246							
.250							
.362							
.400							
.402							
.497							
.550							
.565							
.600							
.650							
.700							
.725							
.730							
.760							
.775							
.800							
.834							
.890							
.857							
.865							
.900							
.915							
.950							
.953							
.965							

AMES 97-717 IA9 OCA + S3 + T9 LOWER WING (REBUS) (24 MAR 73)

REFERENCE DATA

SREF = 2.4210 SQ.FT. XMRP = 28.5300 INCHES
 LREF = 39.8490 INCHES YMRP = 0.0000 INCHES
 BREF = 39.8490 INCHES ZMRP = 0.0000 INCHES
 SCALE = 0.0300 SCALE

PARAMETRIC DATA

ALPHAT = -6.0000 OPRINC = 0.00
 RUDDER = 0.0000 ELEVON = 0.00
 RUDDLR = 0.0000

SECTION (1) LOWER WING

MACH (1) = 1.555	BETAT (1) = -8.160	DEPENDENT VARIABLE CP	
		Y/BW	X/CW
.160	.299	.364	.427
.180	.1990	.1110	.3330
.181			.0330
.186		.1620	
.194	.1070		
.190			
.177		.0770	
.220	.1640		
.246		.1010	
.250			
.362	.1030		
.400			
.412		.1820	
.497	.2900		
.550		.1500	
.565			
.600			
.650			
.700	.1190		
.725			
.750			
.760			
.775			
.800			
.834	-.0920		
.850			
.857			
.865	-.1330		
.900	-.2330		
.905			
.950			
.953			
.965	-.3330		

MACH (1) = 1.555	BETAT (2) = -6.170	DEPENDENT VARIABLE CP	
		Y/BW	X/CW
.160	.299	.364	.427
.180	.1610	.0790	.6890
.190			
.192			
.197			
.200			
.205			
.210			
.215			
.220			
.225			
.230			
.235			
.240			
.245			
.250			
.255			
.260			
.265			
.270			
.275			
.280			
.285			
.290			
.295			
.300			
.305			
.310			
.315			
.320			
.325			
.330			
.335			
.340			
.345			
.350			
.355			
.360			
.365			
.370			
.375			
.380			
.385			
.390			
.395			
.400			
.405			
.410			
.415			
.420			
.425			
.430			
.435			
.440			
.445			
.450			
.455			
.460			
.465			
.470			
.475			
.480			
.485			
.490			
.495			
.500			
.505			
.510			
.515			
.520			
.525			
.530			
.535			
.540			
.545			
.550			
.555			
.560			
.565			
.570			
.575			
.580			
.585			
.590			
.595			
.600			
.605			
.610			
.615			
.620			
.625			
.630			
.635			
.640			
.645			
.650			
.655			
.660			
.665			
.670			
.675			
.680			
.685			
.690			
.695			
.700			
.705			
.710			
.715			
.720			
.725			
.730			
.735			
.740			
.745			
.750			
.755			
.760			
.765			
.770			
.775			
.780			
.785			
.790			
.795			
.800			
.805			
.810			
.815			
.820			
.825			
.830			
.835			
.840			
.845			
.850			
.855			
.860			
.865			
.870			
.875			
.880			
.885			
.890			
.895			
.900			
.905			
.910			
.915			
.920			
.925			
.930			
.935			
.940			
.945			
.950			
.955			
.960			
.965			

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA98
 AMES 97-7:7 IA9 O2A + S3 + T9 LOWER WING

(REPLIES)

SECTION (1) LOWER WING
 MACH (1) = 1.555 BETAT (2) = -6.170

DEPENDENT VARIABLE CP

MACH (1)	BETAT (2)	Y/BW	X/CW	CP
1.555	-6.170	.150	.299	.364
1.555	-6.170	.177	.427	.534
1.555	-6.170	.229	.0190	.0160
1.555	-6.170	.246	.0370	.0160
1.555	-6.170	.250		
1.555	-6.170	.362	-.1240	.0120
1.555	-6.170	.410		.1300
1.555	-6.170	.412	.1290	.1300
1.555	-6.170	.497	.2230	.1200
1.555	-6.170	.550		.1200
1.555	-6.170	.565	.0550	.0930
1.555	-6.170	.610		
1.555	-6.170	.650	.0550	.0320
1.555	-6.170	.710		-.1000
1.555	-6.170	.725		-.1000
1.555	-6.170	.750	-.1050	-.1050
1.555	-6.170	.760		-.1300
1.555	-6.170	.775	-.1100	-.1300
1.555	-6.170	.810		
1.555	-6.170	.834	-.1070	-.1800
1.555	-6.170	.850		-.1700
1.555	-6.170	.857	.0400	-.1600
1.555	-6.170	.865	-.1660	
1.555	-6.170	.910	-.2490	-.2160
1.555	-6.170	.915		-.2500
1.555	-6.170	.950		-.2370
1.555	-6.170	.953	-.3100	-.2300
1.555	-6.170	.965	-.3600	

MACH (1) = 1.555 BETAT (3) = -4.180

MACH (1)	BETAT (3)	Y/BW	X/CW	CP
1.555	-4.180	.140	.299	.364
1.555	-4.180	.150	.427	.534
1.555	-4.180	.161	.0190	.0160
1.555	-4.180	.166	.0530	.0160
1.555	-4.180	.194		
1.555	-4.180	.150		
1.555	-4.180	.177	-.0190	.0160
1.555	-4.180	.229		
1.555	-4.180	.246	.0400	
1.555	-4.180	.250		
1.555	-4.180	.362	-.1050	.0120
1.555	-4.180	.410		.1300
1.555	-4.180	.412		.1300
1.555	-4.180	.497	.1900	.1200
1.555	-4.180	.550		.1200
1.555	-4.180	.565	.0550	.0930
1.555	-4.180	.610		
1.555	-4.180	.650	.0550	.0320
1.555	-4.180	.710		-.1000
1.555	-4.180	.725		-.1000
1.555	-4.180	.750	-.1050	-.1050
1.555	-4.180	.760		-.1300
1.555	-4.180	.775	-.1100	-.1300
1.555	-4.180	.810		
1.555	-4.180	.834	-.1070	-.1800
1.555	-4.180	.850		-.1700
1.555	-4.180	.857	.0400	-.1600
1.555	-4.180	.865	-.1660	
1.555	-4.180	.910	-.2490	-.2160
1.555	-4.180	.915		-.2500
1.555	-4.180	.950		-.2370
1.555	-4.180	.953	-.3100	-.2300
1.555	-4.180	.965	-.3600	

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

AMES 97-707 1A9 C2A + S3 + T9 LOWER WING

SECTION (1) LOWER WING DEPENDENT VARIABLE CP (RBOLL9)

MACH (3) = 1.555 BETAT (3) = -4.180

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.550							
.565							
.620							
.650							
.750	.0080						
.725							
.750							
.760							
.775							
.808							
.834	-.1030						
.850							
.857							
.865	-.2020						
.900	-.2730						
.905							
.950							
.953							
.965	-.3740						

MACH (3) = 1.555 BETAT (4) = 3.640

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.120							
.150							
.180							
.186							
.194							
.190							
.177							
.220							
.246							
.250							
.362							
.400							
.402							
.497	.0340						
.550							
.565							
.600							
.650							
.700	-.2030						
.725							
.750							
.760							
.775							

DATE 21 SEP 73 TABULATED PRESSURE DATA - IA9B

AMES 97-707 IA9 OCA + S3 + T9 LOWER WING

(RBDLS9)

SECTION (1) LOWER WING
MACH (1) = 1.555 BETAT (4) = 3.640

DEPENDENT VARIABLE CP		Y/BW	.299	.364	.427	.534	.673	.780	.887
		X/CW							
.818									
.834									
.850									
.857									
.865									
.900									
.915									
.950									
.953									
.965									

MACH (1) = 1.555 BETAT (5) = 5.680

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW							
.140							
.150							
.181							
.186							
.194							
.193							
.177							
.229							
.246							
.250							
.362							
.410							
.402							
.497							
.550							
.565							
.640							
.650							
.700							
.725							
.750							
.760							
.775							
.808							
.834							
.850							
.857							
.865							
.900							
.915							
.950							
.953							

TABULATED PRESSURE DATA - IASB

DATE 21 SEP 73

AMES 97-707 IAS OEA + S3 + T9 LOWER WING

(RBCL09)

DEPENDENT VARIABLE CP

SECTION (1) LOWER WING

MACH (1) = 1.555 BETAT (5) = 5.680

MACH (1) = 1.555 BETAT (6) = 7.740

	Y/BW	X/CW	.299	.364	.427	.534	.673	.780	.887
	.965	-.2430							
	.299	.364	.427	.534	.673	.780	.887		
	-.1810	-.0120	.1310	.4660	.3580	.3380	.4210		
			.0110	-.2740	-.2540	-.3420	-.4190		
	.0550								
	.081	-.0670							
	.086								
	.094								
	.150								
	.177		.0270						
	.229	-.0730							
	.246	.0510							
	.290								
	.362	-.0230							
	.410								
	.402		-.1250						
	.497	-.0320							
	.550								
	.565								
	.610								
	.650								
	.700	-.1700							
	.725								
	.750								
	.760								
	.775								
	.818								
	.834	-.2440							
	.850								
	.857								
	.865	-.2930							
	.900	-.2570							
	.915								
	.950								
	.953								
	.965	-.2460							

MACH (2) = 2.000 BETAT (1) = -8.340

	Y/BW	X/CW	.299	.364	.427	.534	.673	.780	.887
	.965	-.2430							
	.299	.364	.427	.534	.673	.780	.887		
	-.1810	-.0120	.1310	.4660	.3580	.3380	.4210		
			.0110	-.2740	-.2540	-.3420	-.4190		
	.0550								
	.081	-.0670							
	.086								
	.094								
	.150								
	.177		.0270						
	.229	-.0730							
	.246	.0510							
	.290								
	.362	-.0230							
	.410								
	.402		-.1250						
	.497	-.0320							
	.550								
	.565								
	.610								
	.650								
	.700	-.1700							
	.725								
	.750								
	.760								
	.775								
	.818								
	.834	-.2440							
	.850								
	.857								
	.865	-.2930							
	.900	-.2570							
	.915								
	.950								
	.953								
	.965	-.2460							

AMES 97-717 1A9 CGA + S3 + T9 LOWER WING (RECOLLIS)

SECTION (1) LOWER WING DEPENDENT VARIABLE CP

MACH (2) = 2.000	BETAT (1) = -8.340	Y/BW	X/CW	.299	.364	.427	.534	.673	.780	.887
		.190					.0540	.0210	-.0095	-.0290
		.177			.1100					
		.229		.1010						
		.246			.1460					
		.250					.0530	.0320	.0170	.0110
		.362		.1200			.1940	.2220		.0510
		.410								
		.412				.2190				
		.497		.0370			.1970	.1010		
		.550				.1630				
		.555								
		.610								
		.650		.1510			.0680	.0870	.0430	-.0140
		.710								
		.725				.0480			-.0160	-.0340
		.750					.0510	.0290		
		.760				.0420				
		.775								
		.810								
		.834		.0940			-.0470	.0090	-.0110	
		.890				.0440				
		.857								
		.865		-.0110			-.0470			-.0890
		.910		.0470						
		.915				-.0450				
		.950					-.0510	-.0710	-.0460	
		.953				-.0770				
		.965		-.1310						

MACH (2) = 2.000 BETAT (2) = -6.310

Y/BW	X/CW	.299	.364	.427	.534	.673	.780	.887
.140								
.150		.0130	.1220	.3930	.8130	.8190	.8070	.8790
.181					-.0420	-.0130	-.0880	-.0430
.186			.0730	.0950				
.194		.0950						
.150								
.177				.0880	.0380	-.0130	-.0360	-.0530
.229		.0780						
.246			.1230					
.250					.0330	-.0450	-.0160	-.0240
.362		.0910			.1680	.0130		.0120
.410				.1800				
.412								
.497		.0210						

AMES 97-7J7 IAS OEA + S3 + T9 LOWER WING (RBLLJ9)

SECTION (1) LOWER WING DEPENDENT VARIABLE CF

MACH (2) = 2.1666 BETAT (3) = -4.250

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.808			-.1690				
.834	-.1290			-.1890	-.1750	-.1120	
.850		.1440					
.857							
.865	-.1710			-.1880			-.1310
.910	-.1160						
.915			-.1610				
.950				-.1980	-.1220	-.1130	
.953			-.1590				
.965	-.1610						

MACH (2) = 2.1666 BETAT (4) = 3.930

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.144			.1810	.4940	.4420	.4100	.4530
.150	-.1260	-.1170		-.1160	-.1860	-.2120	-.2480
.181			.1160				
.186		.1410					
.194	-.1140						
.150							
.177			-.1490				
.229	.1410						
.246		.1360					
.250							
.362	-.1420						
.414							
.412			-.1300				
.497	-.1250						
.550			-.1150				
.565							
.610							
.650							
.710							
.725	-.1230						
.750							
.760							
.775							
.810							
.834	-.1740						
.850							
.857			.1440				
.865	-.1590						
.910	-.1810						
.915			-.1730				
.950							
.953			-.2420				

DATE 21 SEP 73 TABULATED PRESSURE DATA - IA98

(RBOL:9)

AMES 97-707 IA9 O2A + S3 + T9 LOWER MING

SECTION (1) LOWER MING

MACH (2) = 2.1000 BETAT (4) = 3.9300

DEPENDENT VARIABLE CP	Y/BM	X/CM	.299	.364	.427	.534	.673	.780	.887
.965			-.2240						

MACH (2) = 2.1000 BETAT (5) = 8.5200

DEPENDENT VARIABLE CP	Y/BM	X/CM	.299	.364	.427	.534	.673	.780	.887
.190			-.0800	-.0800	.1350	.3650	.3250	.2930	.4420
.191					.0270	-.1180	-.1910	-.2230	-.2250
.186				-.0320					
.194			-.0370						
.191									
.177					-.0390	-.0850	-.1780	-.1930	-.1990
.229			-.0450						
.246				.0140		-.0720	-.0830	-.1530	-.1790
.290									
.362			-.0310			-.0620	-.0130		-.1230
.410									
.412					-.0910				
.497			.0210						
.590						-.1530	-.1350		
.565					-.1680				
.644								-.0560	
.650							-.1850		
.714			-.0990			-.1820			
.725								-.1240	-.1140
.750					-.1630				
.760						-.1470	-.1810		
.775					-.1590				
.818									
.834			-.1940			-.1640	-.1510	-.1790	
.850					.0440				
.857									
.865			-.2050			-.1890			-.1570
.911			-.1950						
.915					-.2110		-.2140	-.1680	-.2120
.950									
.953					-.2370				
.965			-.2130						

AMES 97-707 IAS O2A + S3 + T9 LOWER WING

(R80L15)

SECTION (1) LOWER WING

MACH (1) = 1.555 BETAT (2) = -6.210

DEPENDENT VARIABLE CP	Y/BW	X/CW
.150	.177	
.229	.0150	
.246		.0310
.250		
.362	-.0280	
.400		
.412		.1140
.497	.2210	
.550		
.565		.0610
.610		
.650		
.710	.0900	
.725		
.750		
.760		
.775		
.818		
.834	-.0820	
.850		
.857		
.865	-.1760	
.910	-.2950	
.915		
.950		
.953		
.965	-.3690	

.534	.673	.780	.687
-.0410	-.1870	-.2510	-.3020
-.0020	-.0575	-.2160	-.2490
.1220	.5660		-.2050
.0980	.0710		
-.0680			-.1220
-.0680			.0100
-.1290	-.1460		
-.2580	-.1810	-.1750	
-.2280			-.1480
-.2540	-.2550	-.2410	
-.3190			

MACH (3) = 1.555 BETAT (3) = -4.820

DEPENDENT VARIABLE CP	Y/BW	X/CW
.160	.0340	
.190		.0420
.181		
.186		-.1240
.194	.0330	
.190		
.177		
.229	-.0140	
.246		.0180
.250		
.362	-.0570	
.410		
.412		
.497		

.534	.673	.780	.687
.6180	.5940	.5870	.6380
-.3140	-.3550	-.3770	-.3710
-.1150	-.2980	-.2920	-.3330
-.1740			
-.1470	-.1180	-.2650	-.2830
.1790	.0290		-.2470
.1710			

DATE 21 SEP 73

TABULATED PRESSURE DATA - IA95

AMES 97-707 IA9 O2A + S3 + T9 LOWER WING

(R0110)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (3) = -4.220

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.837
.595							
.565							
.600							
.650							
.700							
.725							
.750							
.760							
.775							
.808							
.834							
.850							
.857							
.865							
.900							
.905							
.950							
.953							
.965							

MACH (1) = 1.555 BETAT (4) = 3.650

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.837
.660							
.690							
.700							
.725							
.750							
.760							
.775							
.808							
.834							
.850							
.857							
.865							
.900							
.905							
.950							
.953							
.965							

DATE 21 SEP 73

TABLATED PRESSURE DATA - IASB

(RBDL10)

AMES 97-707 IAG O2A + S3 + T9 LOWER WING

SECTION (1) LOWER WING

MACH (1) = 1.555 BETAT (4) = 3.655

DEPENDENT VARIABLE CF	Y/BW	X/CW
.818	.299	.364
.834	-.1940	.427
.850		-.2675
.857		.0000
.865	-.2799	
.900	-.2999	
.905		-.3380
.920		-.3220
.953		-.2715
.965	-.2440	

MACH (3) = 1.555 BETAT (5) = 5.710

DEPENDENT VARIABLE CF	Y/BW	X/CW
.050	.299	.364
.081	-.1350	.0670
.126		-.1550
.194	-.0610	
.195		-.1670
.177		
.229	-.1680	
.246		-.0790
.290		
.362	-.1080	
.400		-.1310
.402		
.497	-.0230	
.550		-.0330
.565		
.610		
.650	-.1520	
.700		-.1610
.725		-.2140
.750		
.760		-.1990
.775		-.2540
.808		
.834	-.1920	
.850		-.2720
.857		-.2770
.865	-.2810	
.910	-.3100	
.915		-.3410
.950		-.3320
.953		-.3890

.887

.780

.673

.534

.427

.364

.299

.2675

.0000

-.2799

-.2999

-.3380

-.3220

-.2715

-.2440

.050

.081

.126

.194

.195

.177

.229

.246

.290

.362

.400

.402

.497

.550

.565

.610

.650

.700

.725

.750

.760

.775

.808

.834

.850

.857

.865

.910

.915

.950

.953

.780

.673

.534

.427

.364

.299

.2675

.0000

-.2799

-.2999

-.3380

-.3220

-.2715

-.2440

.050

.081

.126

.194

.195

.177

.229

.246

.290

.362

.400

.402

.497

.550

.565

.610

.650

.700

.725

.750

.760

.775

.808

.834

.850

.857

.865

.910

.915

.950

.953

.780

.673

.534

.427

.364

.299

.2675

.0000

-.2799

-.2999

-.3380

-.3220

-.2715

-.2440

.050

.081

.126

.194

.195

.177

.229

.246

.290

.362

.400

.402

.497

.550

.565

.610

.650

.700

.725

.750

.760

.775

.808

.834

.850

.857

.865

.910

.915

.950

.953

.780

.673

.534

.427

.364

.299

.2675

.0000

-.2799

-.2999

-.3380

-.3220

-.2715

-.2440

.050

.081

.126

.194

.195

.177

.229

.246

.290

.362

.400

.402

.497

.550

.565

.610

.650

.700

.725

.750

.760

.775

.808

.834

.850

.857

.865

.910

.915

.950

.953

.780

.673

.534

.427

.364

.299

.2675

.0000

-.2799

-.2999

-.3380

-.3220

-.2715

-.2440

.050

.081

.126

.194

.195

.177

.229

.246

.290

.362

.400

.402

.497

.550

.565

.610

.650

.700

.725

.750

.760

.775

.808

.834

.850

.857

.865

.910

.915

.950

.953

.780

.673

.534

.427

.364

.299

.2675

.0000

-.2799

-.2999

-.3380

-.3220

-.2715

-.2440

.050

.081

.126

.194

.195

.177

.229

.246

.290

.362

.400

.402

.497

DATE: SEP 1

COMPUTED PRESSURE DATA - 495

000000

SOLUTION FOLLOWER KING DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (5) = 5.710

	Y/BA	X/CM	.427	.534	.672	.761	.857
.845	-.2570						
.850							
.855							
.860							
.865							
.870							
.875							
.880							
.885							
.890							
.895							
.900							
.905							
.910							
.915							
.920							
.925							
.930							
.935							
.940							
.945							
.950							
.955							
.960							
.965							
.970							
.975							
.980							
.985							
.990							
.995							
1.000							

MACH (2) = 1.555 BETAT (6) = 7.770

	Y/BA	X/CM	.427	.534	.672	.761	.857
.845							
.850							
.855							
.860							
.865							
.870							
.875							
.880							
.885							
.890							
.895							
.900							
.905							
.910							
.915							
.920							
.925							
.930							
.935							
.940							
.945							
.950							
.955							
.960							
.965							
.970							
.975							
.980							
.985							
.990							
.995							
1.000							

MACH (3) = 2.000 BETAT (1) = -8.395

	Y/BA	X/CM	.427	.534	.672	.761	.857
.845							
.850							
.855							
.860							
.865							
.870							
.875							
.880							
.885							
.890							
.895							
.900							
.905							
.910							
.915							
.920							
.925							
.930							
.935							
.940							
.945							
.950							
.955							
.960							
.965							
.970							
.975							
.980							
.985							
.990							
.995							
1.000							

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A99
AMES 97-737 1A9 021 + S3 + T5 LOWER WING

RESULTS

SECTION (1) LOWER WING

MACH (2) = 2.1000	BETA (1) = -8.390	DEPENDENT VARIABLE CP	Y/BW	X/CW							
		.299	.364	.427	.534	.673	.780	.887			
				.5840	.1250	-.1020	-.1550	-.1880			
		.1340	.1470		.3300	-.1010	-.1210	-.1380			
		.1180			.1680	.1350		-.1650			
				.2010							
		.0460		.1540	.1750	.1910					
		.565						-.1480			
		.650			.1540						
		.725						.1270			
		.750						-.1210	-.1740		
		.760			.0370						
		.775			.0330	.0550					
		.818									
		.834									
		.850			-.0280	.0420	-.1110				
		.857			.0220						
		.965			-.0310						
		.940			-.1180						
		.945									
		.950			-.1480						
		.953									
		.965			-.1380						
					.299	.354	.427	.534	.673	.780	.887
					X/CW						
					.1340	.1470					
					.1180						
					.0460						
					.565						
					.650						
					.725						
					.750						
					.760						
					.775						
					.818						
					.834						
					.850						
					.857						
					.965						
					.940						
					.945						
					.950						
					.953						
					.965						

MACH (2) = 2.0000 BETA (2) = -6.330

MACH (2) = 2.0000	BETA (2) = -6.330	DEPENDENT VARIABLE CP	Y/BW	X/CW							
		.299	.354	.427	.534	.673	.780	.887			
				.5840	.1250	-.1020	-.1550	-.1880			
		.1340	.1470		.3300	-.1010	-.1210	-.1380			
		.1180			.1680	.1350		-.1650			
				.2010							
		.0460		.1540	.1750	.1910					
		.565						-.1480			
		.650			.1540						
		.725						.1270			
		.750						-.1210	-.1740		
		.760			.0370						
		.775			.0330	.0550					
		.818									
		.834									
		.850			-.0280	.0420	-.1110				
		.857			.0220						
		.965			-.0310						
		.940			-.1180						
		.945									
		.950			-.1480						
		.953									
		.965			-.1380						
					.299	.354	.427	.534	.673	.780	.887
					X/CW						
					.1340	.1470					
					.1180						
					.0460						
					.565						
					.650						
					.725						
					.750						
					.760						
					.775						
					.818						
					.834						
					.850						
					.857						
					.965						
					.940						
					.945						
					.950						
					.953						
					.965						

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

AMES 97-707 1A9 OCA + S3 + T9 LOWER WING

(R90L10)

SECTION 1) LOWER WING

MACH (2) = 2.0000 BETAT (2) = -6.330

DEPENDENT VARIABLE CF	Y/BW	X/CW
.550	.299	.364
.565	.427	.534
.630	.1230	.673
.650	.0650	.780
.740	.0490	.897
.725	.0210	
.750		
.760		
.775		
.800		
.834		
.850		
.857		
.865		
.940		
.945		
.950		
.953		
.975		

MACH (2) = 2.0000 BETAT (3) = -4.280

DEPENDENT VARIABLE CF	Y/BW	X/CW
.299	.364	.534
.1030	.3640	.673
.0850	.0450	.780
.0660		.897
.150		
.177		
.225		
.246		
.290		
.362		
.400		
.402		
.497		
.550		
.555		
.600		
.650		
.740		
.725		
.750		
.760		
.775		

DATE 21 SEP 73

TABLULATED PRESSURE DATA - 1A98
 AMES 97-737 IAD OEA + S3 + T9 LOWER WING

(RBDL15)

DEPENDENT VARIABLE CP

SECTION (1) LOWER WING

MACH (2) = 2.000 BETAT (4) = -.170

MACH (2) = 2.000 BETAT (5) = 3.940

Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW	-.2230						
Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW	-.0320	-.0010	.1890	.4820	.4330	.3990	.4230
	.050		.0050	-.1380	-.2100	-.2360	-.2380
	.081	.0200					
	.086						
	.094	.0040		-.0890	-.1790	-.2010	-.2190
	.150		-.0200				
	.177	.0190					
	.229	.0340		-.0090	-.1710	-.1790	-.1970
	.250	.0420		-.0320	.0040		-.1910
	.362		-.0310				
	.402						
	.497	-.0250		-.0020	-.0990		
	.550		-.1070				-.1840
	.565						
	.600						
	.650	-.1240		-.1390	-.1570	-.1310	
	.725						
	.750						
	.760						
	.775						
	.809						
	.834	-.1800		-.1680	-.1830	-.1690	-.1680
	.850						
	.857						
	.865	-.1680					
	.900	-.1990					
	.905						
	.950						
	.953						
	.965	-.2330					
Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW	-.0320	.0230	.1650	.4130	.3720	.3360	.3510
	.050			-.1400	-.2110	-.2510	-.2500
	.081		-.0010				
	.086						
	.094	-.0410					

MACH (2) = 2.000 BETAT (6) = 5.980

DATE 21 SEP 73

TABULATED PRESSURE DATA - 1A9B

AMES 97-707 1A9 OSA + S3 + T9 LOWER WING

(RBOL1U)

SECTION (1) LOWER WING

DEPENDENT VARIABLE CP

MACH (2) = 2.0000 BETAT (7) = 0.0000

Y/BW X/CW	.299	.364	.427	.534	.673	.785	.887
.550							
.565							
.600							
.650							
.700							
.725							
.750							
.760							
.775							
.808							
.834							
.850							
.857							
.865							
.900							
.905							
.900							
.953							
.965							

Y/BW X/CW	.299	.364	.427	.534	.673	.785	.887
.550							
.565							
.600							
.650							
.700							
.725							
.750							
.760							
.775							
.808							
.834							
.850							
.857							
.865							
.900							
.905							
.900							
.953							
.965							

(RBOL11)

DATE 21 SEP 73
 TABULATED PRESSURE DATA - IA9B
 AMES 97-707 IA9 O2A + S3 + T9 LOWER WING

DEPENDENT VARIABLE CP

SECTION (1) LOWER WING

MACH (1) = 1.555 BETAT (2) = -6.360

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.150			-.0120				
.177							
.229	.0320						
.246							
.250							
.362	-.0270			.1250	.0450		-.2190
.400			.1170				
.402				.1010	.0960		
.497	.2290						
.550			.0900				
.565							-.1260
.600						.0230	
.650	.0620			-.0550			
.700				-.0680			-.0640
.725							
.750							
.760			-.0870				
.775							
.808			-.1460				
.834	-.0700						
.850							
.857			.0220				
.865	-.1750						-.1500
.900	-.2580						
.905			-.2540				
.950							
.953			-.3180				
.965	-.3710						
Y/BW	.299	.364	.427	.534	.673	.780	.887
X/CW	.0320	.0490	.2300	.6120	.5970	.5870	.5600
.150				-.2970	-.3480	-.3800	-.3730
.177			-.0720				
.229							
.246							
.250							
.362							
.400							
.402							
.497							
.550							
.565							
.600							
.650							
.700							
.725							
.750							
.760							
.775							
.808							
.834							
.850							
.857							
.865							
.900							
.905							
.950							
.953							
.965							

MACH (1) = 1.555 BETAT (2) = -4.310

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.150							
.177							
.229							
.246							
.250							
.362							
.400							
.402							
.497							
.550							
.565							
.600							
.650							
.700							
.725							
.750							
.760							
.775							
.808							
.834							
.850							
.857							
.865							
.900							
.905							
.950							
.953							
.965							

DATE 21 SEP 73

TABLATED PRESSURE DATA - IA9B
 AMES 97-707 IA9 OZA + S3 + T9 LOWER WING

(RBOL11)

DEPENDENT VARIABLE CP

SECTION (1) LOWER WING

MACH (1) = 1.555 BETAT (3) = -4.310

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.550			-.0120				-.2160
.565				.0710	.0690		
.610						-.0330	
.650	.0600				-.0820		
.710				-.0900		-.1050	-.0830
.725			-.1270	-.1560	-.1710		
.750							
.760			-.1790				
.775							
.818							
.834	-.1090			-.2340	-.2180	-.1950	
.850			.0220				
.857							
.865	-.2120			-.2660			-.1760
.920	-.2770		-.2730				
.915				-.2940	-.2780	-.2650	
.950							
.953			-.3370				
.965	-.3820						

MACH (3) = 1.555 BETAT (4) = -3.180

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.090							
.141							
.146							
.194	-.0200						
.150							
.177							
.229	-.0580						
.246							
.250							
.362	-.0740						
.410							
.412							
.497	.0650						
.550							
.565							
.610							
.650	-.0990						
.710							
.725							
.750							
.760							
.775							
.810							
.815							
.820							
.825							
.830							
.835							
.840							
.845							
.850							
.855							
.860							
.865							
.870							
.875							
.880							
.885							
.890							
.895							
.900							
.905							
.910							
.915							
.920							
.925							
.930							
.935							
.940							
.945							
.950							
.955							
.960							
.965							
.970							
.975							
.980							
.985							
.990							
.995							

(RBOL11)

AMES 97-707 1A9 08A + S3 + T9 LOWER WING

SECTION (1) LOWER WING
DEPENDENT VARIABLE CP

MACH (1) = 1.555 BETAT (4) = -.180

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.808			-.2340				
.834	-.1900						
.850			.1400	-.2840	-.2750	-.2950	
.857							
.865	-.2470			-.3180			-.2360
.910	-.3160						
.915			-.3280				
.930				-.3480	-.3330	-.3160	
.933			-.3790				
.955	-.3700						

MACH (1) = 1.555 BETAT (5) = 3.940

Y/BW X/CW	.299	.364	.427	.534	.673	.780	.887
.840	-.1010	-.1020	.1750	.3720	.3210	.3440	.3390
.850				-.3670	-.4160	-.4150	-.4490
.861			-.1450				
.866		-.1080					
.864	-.1500						
.850				-.2070	-.3990	-.3420	-.3990
.877			-.1170				
.829	-.1040						
.846		-.1680					
.850				-.1750	-.2250	-.2380	-.3060
.862	-.1910				-.1190	-.1380	-.2880
.810			-.1390				
.897	.1150			-.1640	-.1910		
.850			-.1660				
.865							-.1260
.850				-.2230	-.1590	-.1970	
.725	-.2050						
.750						-.1740	-.1560
.760			-.2440				
.775				-.2490	-.2180		
.816			-.2850				
.834	-.2060			-.2690	-.2670	-.2510	
.850			.1400				
.857							
.865	-.2850						
.910	-.2800			-.3140			-.2440
.915			-.3340				
.930				-.3380	-.3360	-.3170	
.955			-.2500				

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TABULATED PRESSURE DATA - IA98

AMES 97-707 IA9 O2A + S3 + T9 LOWER WING

(RESULTS)

SECTION (1) LOWER WING

MACH (1) = 1.555 BETAT (7) = 8.060

DEPENDENT VARIABLE CF

Y/BW X/CW	.299	.364	.427	.534	.673	.763	.887
.155							
.177							
.229							
.246							
.250							
.362							
.400							
.412							
.497							
.551							
.565							
.611							
.651							
.711							
.725							
.751							
.761							
.775							
.818							
.834							
.851							
.857							
.865							
.911							
.915							
.951							
.953							
.965							

MACH (2) = 2.000 BETAT (1) = -6.390

Y/BW X/CW	.299	.364	.427	.534	.673	.763	.887
.141							
.151							
.181							
.186							
.184							
.151							
.177							
.229							
.246							
.291							
.362							
.411							
.412							
.497							

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A98

AMES 97-707 1A9 ORA + S3 + T9 LOWER WING

RESULTS

SECTION (1) LOWER WING DEPENDENT VARIABLE CF

MACH (2) = 2.0000 BETAT (2) = -6.340

Y/BW X/CW	.299	.364	.427	.534	.673	.785	.887
.808							
.834	.0220						
.850							
.857							
.865	-.0550						
.920	-.1070						
.945							
.950							
.953							
.955	-.1540						

MACH (2) = 2.0000 BETAT (3) = -4.290

Y/BW X/CW	.299	.364	.427	.534	.673	.785	.887
.044	-.0050	.1110	.3690	.7210	.6710	.6730	.7280
.050			.0490	-.0340	-.1440	-.1470	-.1450
.061		.0690					
.066							
.094							
.150							
.177							
.229	.0080		.0420	-.0200	-.0830	-.1140	-.1410
.246		.0160					
.250							
.362	.0900						
.420							
.437	.0140		.1290				
.530							
.565			.0680				
.600							
.650							
.700	.0990						
.725							
.750							
.760							
.775							
.800							
.830	-.0290						
.850							
.857							
.865	-.0810						
.920	-.1390						
.945							
.950							
.953							
.955							

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AMES 97-107 1A9 02A + S3 + T5 LOWER MINE

(FEBOL11)

SECTION (1) LOWER MINE	DEPENDENT VARIABLE CP	
MACH (2) = 2.000 BETAT (3) = -4.290	Y/BW X/CM	.299 .364 .427 .534 .673 .780 .897
MACH (2) = 2.000 BETAT (4) = -3.180	Y/BW X/CM	.299 .364 .427 .534 .673 .780 .897
		.060 .080 .100 .120 .140 .160 .180 .200 .220 .240 .260 .280 .300 .320 .340 .360 .380 .400 .420 .440 .460 .480 .500 .520 .540 .560 .580 .600 .620 .640 .660 .680 .700 .720 .740 .760 .780 .800 .820 .840 .860 .880 .900 .920 .940 .960
MACH (2) = 2.000 BETAT (5) = 3.990	Y/BW X/CM	.299 .364 .427 .534 .673 .780 .897

DATE 21 SEP 73 TABULATED PRESSURE DATA - 1A99

AMES 97-707 1A9 OCA + S3 + T9 LOWER WING

(REBOL:)

SECTION (1) LOWER WING

MACH (2) = 2.000 BETAT (5) = 3.930

DEPENDENT VARIABLE CP								
Y/BW	X/CW	Y/BW	X/CW	Y/BW	X/CW	Y/BW	X/CW	
.150		.299	.364	.427	.534	.673	.780	.887
.177				-.0171	-.0800	-.1771	-.1980	-.2150
.229		.0270						
.246		.0461						
.250					-.0900	-.1680	-.1750	-.1960
.362		.0040			-.0260	.0000		-.1160
.411								
.412				-.0280				
.497		-.0190			-.0950	-.0860		
.550				-.0980				-.1610
.565								
.611								
.650								
.711		-.1190			-.1340		-.1270	
.725								
.750								
.760				-.1590				
.775				-.1810		-.1640	-.1800	
.818								
.834		-.1870			-.2110	-.1950	-.1970	
.850				.0440				
.857								
.865		-.2040			-.2080			-.2010
.911		-.2110						
.915				-.1910				
.950					-.2090	-.2180	-.2260	
.953				-.2170				
.965		-.2360						
MACH (2) = 2.000 BETAT (6) = 5.980								
Y/BW	X/CW	Y/BW	X/CW	Y/BW	X/CW	Y/BW	X/CW	
.041		.299	.364	.427	.534	.673	.780	.887
.050		-.0280	-.0180	.1680	.4160	.3740	.3390	.3470
.081				.0420	-.1350	-.2090	-.2470	-.2540
.086			.0430					
.094		.0050						
.150					-.0980	-.1950	-.2120	-.2210
.177				-.0280				
.229		.0030						
.246		.0180						
.250					-.0940	-.1410	-.1940	-.2110
.362		-.0120			-.0380	-.0230		-.2060
.411								
.412				-.0570				
.497		-.0120						

